

DOT/FAA/AM-92/1

Office of Aviation Medicine  
Washington, D.C. 20591

**AD-A245 509**



*Jan*  
**Index of FAA Office of  
Aviation Medicine Reports:  
1961 through 1991**

William E. Collins  
Michael E. Wayda

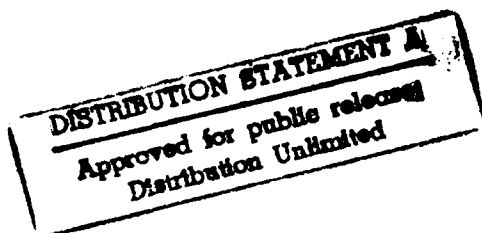
Civil Aeromedical Institute  
Federal Aviation Administration  
Oklahoma City, Oklahoma 73125

January 1992



Final Report

This document is available to the public  
through the National Technical Information  
Service, Springfield, Virginia 22161.



U.S. Department  
of Transportation  
Federal Aviation  
Administration

**92-02691**



92 2

005

## **NOTICE**

This document is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The United States Government assumes no liability for the contents or use thereof.

1. Report No. DOT/FAA/AM-92/1	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle  INDEX TO FAA OFFICE OF AVIATION MEDICINE REPORTS: 1961 THROUGH 1991		5. Report Date January 1992	
		6. Performing Organization Code	
7. Author(s) William E. Collins and Michael E. Wayda		8. Performing Organization Report No.	
9. Performing Organization Name and Address FAA Civil Aeromedical Institute P. O. Box 25082 Oklahoma City, OK 73125		10. Work Unit No. (TRAIS)	
		11. Contract or Grant No.	
12. Sponsoring Agency Name and Address Office of Aviation Medicine Federal Aviation Administration 800 Independence Avenue, S.W. Washington, D.C. 20591		13. Type of Report and Period Covered	
		14. Sponsoring Agency Code	
15. Supplementary Notes  National Technical Information Service order numbers are shown in the chronological listing after the report titles.			
16. Abstract  An index to Office of Aviation Medicine Reports (1964-1991) and Civil Aeromedical Research Institute Reports (1961-1963) is presented as a reference for those engaged in aviation medicine and related activities. It lists all FAA aviation medicine reports published from 1961 through 1991: chronologically (pp. 1-34), alphabetically by author (pp.35-41), and alphabetically by subject (pp. 43-62).			
17. Key Words Aviation Medicine Research Reports Office of Aviation Medicine		18. Distribution Statement Document is available to the public through the National Technical Information Service, Springfield, Virginia 22161.	
19. Security Classif. (of this report)  Unclassified	20. Security Classif. (of this page)  Unclassified	21. No. of Pages  69	22. Price

## *Foreword*

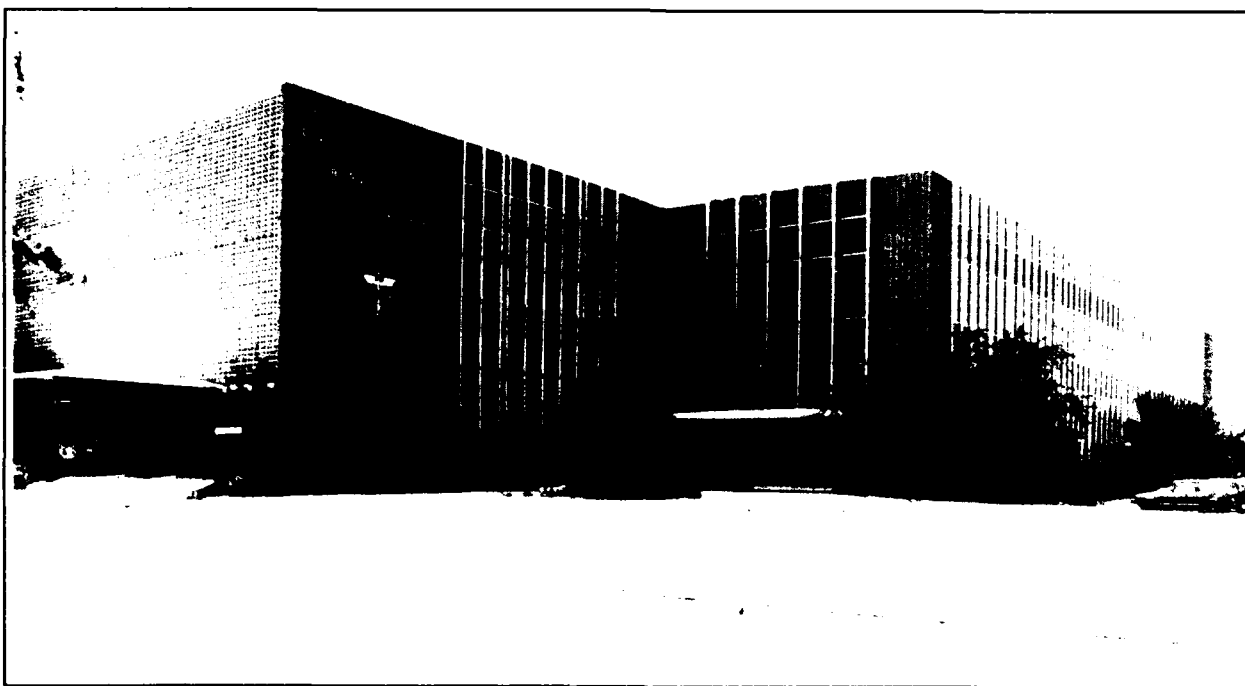
# **Index of FAA Office of Aviation Medicine Reports: 1961 through 1991**

**C**AMI, the Civil Aeromedical Institute, is the medical certification, research, education, and occupational health wing of the Federal Aviation Administration's Office of Aviation Medicine. Our only purpose is *aviation safety*.

We study the factors that influence human performance in the aviation environment, find ways to understand them, and communicate that understanding to the aviation community.

*OAM Reports* is the major part of this effort. Published since 1961, these reports are the distillation of FAA aeromedical research efforts in aviation safety. We have published 647 reports on a wide range of subjects, from "Angular Acceleration" to "Workload Effects on Complex Performance."

The *Index* is provided as a reference for those engaged in aviation medicine and related disciplines. We do so because sharing significant findings contributes to the body of aeromedical knowledge through the synergistic effects of others, leading to understanding and the application of appropriate solutions.



The Civil Aeromedical Institute is located at the Mike Monroney Aeronautical Center in Oklahoma City, Oklahoma. The Institute's major programs are:

**AEROMEDICAL CERTIFICATION  
AEROMEDICAL EDUCATION  
HUMAN RESOURCES RESEARCH  
AEROMEDICAL RESEARCH  
OCCUPATIONAL HEALTH**

## How to use the Index of FAA Office of Aviation Medicine Reports

The Index is organized in three sections:

1. **Chronological Index:** A cumulative list of all research reports from 1961 through 1991.
2. **Author Index:** An index of authors, in alphabetical order.
3. **Subject Index:** An index of subjects, listed in alphabetical order.

Some examples are:

91-2      Hordinsky, J.R., and George, M.H: Utilization of emergency medical kits by air carriers.

This is an entry from the *Chronological Index* of research reports, shown in cumulative sequence .

Dark, S. J.      76-10, 78-25, 80-19, 83-5, 84-9, 85-9, 86-7.

This is an entry from the *Author Index*, which lists all of the research reports prepared by an author or co-author.

Ditching  
... flotation and survival equipment studies, 78-1, 85-11.  
... infant flotation device, 71-37, 91-6.  
... seat cushion flotation, 66-13.

An example of entries in the *Subject Index*; refers to all reports that pertain to a specific topic.

## Report Numbers

90-13      Della Rocco, P.S., and Manning, C.A: Selection of air traffic controllers for automated systems: applications from current research. **ADA230058**

The first numbers (**90-13**) refer to the year and chronological number of the report. This is an abbreviated portion of the official number given each report and is found in the upper left of the report's cover page. The full report number of "90-13" is DOT/FAA/AM-90/13. The "**ADA230058**" is the number appended to the report by the National Technical Information Service.

Keep the number system in mind when ordering *OAM Reports*.

## How to order OAM Reports

- You may purchase copies of *OAM Reports* from: National Technical Information Service  
(Refer to the "AD" numbers.) 5285 Port Royal Road  
Springfield, Virginia 22161  
Telephone (703) 478-4650
- The Federal Depository Library System: Some 1,400 U.S. libraries maintain a reference repository of official Government reports printed by the U.S. Government Printing Office. The reports are either in printed or microform for public use. These libraries provide reference services and interlibrary loans; however, they are not sales outlets.
- A limited number of back issues are maintained by the Civil Aeromedical Institute. Some requests may be filled by writing to: **FAA Civil Aeromedical Institute**  
Aeromedical Education Division, AAM-400  
OAM Reports  
P.O. Box 25082  
Oklahoma City, OK 73125

*"Aviation Safety through the Development and Application of Aeromedical Knowledge."*

# Contents

Part I	
Chronological Index -----	1
Part II	
Author Index -----	35
Part III	
Subject Index -----	43



Accession For	
NTIS GRA&I	<input checked="checked" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	

# **PART I: CHRONOLOGICAL INDEX**

---

## **FAA Office of Aviation Medicine Reports: 1961 through 1991**

### **1961**

- 61-1 Trites, D. K: Problems in air traffic management: I. Longitudinal prediction of effectiveness of air traffic controllers. AD268954

### **1962**

- 62-1 Swearingen, J. J., Wheelwright, C. D., and Garner, J. D: An analysis of sitting areas and pressures of man. AD271138
- 62-2 Cobb, B. B., Jr: Problems in air traffic management: II. Prediction of success in air traffic controller school. N62-10354
- 62-3 Trites, D. K., and Cobb, B. B., Jr: Problems in air traffic management: III. Implications of age for training and job performance of air traffic controllers. N62-10353
- 62-4 Swearingen, J. J., and Mohler, S. R: Sonotropic effects of commercial air transport sound on birds. AD280212
- 62-5 Iampietro, P. F., and Goldman, R: Prediction of energy cost of treadmill work. AD280607
- 62-6 Balke, B: Human tolerances. AD421156
- 62-7 Hasbrook, A. H., and Earley, J. C: Failure of rearward-facing seat backs and resulting injuries in a survivable transport accident. AD421157
- 62-8 Smith, P. W: Toxic hazards in aerial application. AD421158
- 62-9 Hasbrook, A. H., Garner, J. D., and Snow, C. C: Evacuation pattern analysis of a survivable commercial aircraft crash. AD282893
- 62-10 Daugherty, J. W., Lacey, D. E., and Korty, P: Problems in aerial application: I. Some biochemical effects of lindane and dieldrin on vertebrates. AD288413
- 62-11 Hawkes, G. R: Tactile communication. AD288414
- 62-12 Dille, J. R., Newton, N. L., and Culver, J. F: The effects of simulated altitude on penetrating eye injuries. AD288415
- 62-13 Swearingen, J. J., Hasbrook, A. H., Snyder, R. G., and McFadden, E. B: Kinematic behavior of the human body during deceleration. AD283938
- 62-14 Swearingen, J. J: Determination of centers of gravity of man. AD287156
- 62-15 Gogel, W. C: The visual perception of size and distance. AD287197
- 62-16 Hawkes, G. R: Absolute identifications of cutaneous stimuli varying in both intensity level and duration. AD295134
- 62-17 Collins, W. E: Manipulation of arousal and its effects on human vestibular nystagmus induced by caloric irrigation and angular accelerations. AD290348

***Part I: Chronological Index***

---

- 62-18 Hinshaw, L. B., Brake, C. M., Iampietro, P. F., and Emerson, T. E., Jr: Effect of increased venous pressure on renal hemodynamics. AD295137
- 62-19 Snyder, R. G: A case of survival of extreme vertical impact in seated position. AD295136
- 62-20 Mohler, S. R: Civil aeromedical research: Responsibilities, aims, and accomplishments. AD295135
- 62-21 McFadden, E. B., Raeke, J. W., and Young, J. W: An improved method for determining the efficiency of crew and passenger oxygen masks. AD297835

**1963**

- 63-1 Emerson, T. E., Jr., Hinshaw, L. B., Brake, C. M., and Iampietro, P. F: The development of reversible hematuria and oliguria following elevation of renal venous pressure. AD299775
- 63-2 Mohler, S. R., and Dille, J. R: Resume and index of reports of the Civil Aeromedical Research Institute, 1961-1962. AD431924
- 63-3 Collins, W. E: Observations on the elicitation of secondary and inverted primary nystagmus from the cat by unilateral caloric irrigation. AD413456
- 63-4 Daugherty, J. W., Lacey, D. E., and Kory, P: Problems in aerial application: II. Effects of chlorinated hydrocarbons on substrate-linked phosphorylation. AD418504
- 63-5 Melton, C. E., Jr: Neural control of the ciliary muscle. AD413392
- 63-6 Balke, B: A simple field test for the assessment of physical fitness. AD413393
- 63-7 Tobias, J. V., and Jeffress, L. A: Relation of earphone transient response to measurement of onset-duration. AD413391
- 63-8 McKenzie, J. M., Fowler, P. R., and Lyne, P. J: Calibration of an electronic counter and pulse height analyzer for plotting erythrocyte volume spectra. AD425598
- 63-9 Swearingen, J. J., and McFadden, E. B: Studies of air loads on man. AD602207
- 63-10 Gogel, W. C: The perception of depth from binocular disparity. AD429827
- 63-11 Lategola, M. T: In vivo measurement of total gas pressure in mammalian tissue. AD425537
- 63-12 Nagle, F. J., Balke, B., Ganslen, R. V., and Davis, A. W: The mitigation of physical fatigue with Spartase. AD429001
- 63-13 Collins, W. E: Primary, secondary, and caloric nystagmus of the cat following habituation to rotation. AD428756
- 63-14 Collins, W. E: Nystagmus responses of the cat to rotation and to directionally equivalent and nonequivalent stimuli after unilateral caloric habituation. AD425565
- 63-15 Snyder, R. G: Human survivability of extreme impacts in free-fall. AD425412
- 63-16 Emerson, T. E., Jr., Brake, C. M., and Hinshaw, L. B: Mechanisms of action of the insecticide endrin. AD431299
- 63-17 Tobias, J. V: Application of a "relative" procedure to a problem in binaural beat perception. AD428899



*Part I: Chronological Index*

- 63-18 Balke, B: Experimental evaluation of work capacity as related to chronological and physiological aging. AD431301
- 63-19 Wernick, J. S., and Tobias, J. V: A central factor in pure tone auditory fatigue. AD428737
- 63-20 Gogel, W. C: The visual perception of spatial extent. AD432587
- 63-21 Tang, P. C., and Dille, J. R: In-flight loss of consciousness; a case report. AD430394
- 63-22 Hinshaw, L. B., Page, B. B., Brake, C. M., Emerson, T. E., Jr., and Masucci, F. D: The mechanisms of intrarenal hemodynamic changes following acute arterial occlusion. AD431302
- 63-23 Higgins, E. A., Iampietro, P. F., Adams, T., and Holmes, D. D: The effects of a tranquilizer on body temperature. AD432484
- 63-24 Dille, J. R., and Smith, P. W: Central nervous system effects of chronic exposure to organophosphate insecticides. AD434090
- 63-25 Adams, T., Funkhouser, G. E., and Kendall, W. W: A method for the measurement of physiologic evaporative water loss. AD603418
- 63-26 Reins, D. A., Holmes, D. D., and Hinshaw, L. B: Acute and chronic effects of the insecticide endrin on renal function and renal hemodynamics. AD602206
- 63-27 Dille, J. R., Crane, C. R., and Pendergrass, G. E: The flammability of lip, face, and hair preparations in the presence of 100% oxygen. AD602204
- 63-28 Gogel, W. C: Size cues and the adjacency principle. AD602205
- 63-29 Collins, W. E: Task-control of arousal and the effects of repeated unidirectional angular acceleration on human vestibular responses. AD603419
- 63-30 Snyder, R. G., Ice, J., Duncan, J. C., Hyde, A. S., and Leverett, S., Jr: Biomedical research studies in acceleration. AD601531 Supplement—AD801793
- 63-31 Trites, D. K., and Cobb, B. B., Jr: Problems in air traffic management: IV. Comparison of preemployment, job-related experience with aptitude tests as predictors of training and job performance of air traffic control specialists. AD603416
- 63-32 Hinshaw, L. B., Emerson, T. E., Jr., and Brake, C. M: Mechanism of autoregulation in the intact kidney. AD603417
- 63-33 Dill, D. B., Robinson, S. Balke, B., and Newton, J. L: Work tolerance: Age and altitude. AD603932
- 63-34 Ganslen, R. V., Balke, B., Phillips, E. E., and Nagle, F: Effects of some tranquilizing, analeptic, and vasodilating drugs on physical work capacity and orthostatic tolerance. AD603930
- 63-35 Pearson, R. G: Human factors aspects of lightplane safety. AD603931
- Tech. Pub. #1 Collins, W. E., Tobias, J. V., Capps, M. J., and Allen, M. E: Annotated bibliography of recently translated material. I. AD424640

***Part I: Chronological Index***

---

**1964**

- 64-1    Wentz, A. E: Studies on aging in aviation personnel. AD456652
- 64-2    Naughton, J., Balke, B., and Nagle, F: The effect of physical conditioning on an individual before and after suffering a myocardial infarction. AD456653
- 64-3    Nagle, F. J., and Balke, M: The gradational step test for assessing cardiorespiratory capacity: An experimental evaluation of treadmill and step test procedures. AD456654
- 64-4    Spieth, W: Cardiovascular health status, age, and psychological performance. AD453578
- 64-5    Moser, K. M: Current status of clot dissolution therapy. AD453579
- 64-6    Seipel, J. H., and Wentz, A. E: Unsuspected neurologic disease in aviation personnel: Survival following seizures in flight. AD453580
- 64-7    Houk, V. N., Hufnagel, C. A., McClenathan, J. E., and Moser, K. M: Chronic thrombotic obstruction of major pulmonary arteries. AD453581
- 64-8    Moser, K. M., Perry, R. B., and Luchsinger, P. C: Cardiopulmonary consequences of pyrogen-induced hyperpyrexia in man.
- 64-9    Freud, S. L: Duration of spiral aftereffect as a function of retinal size, retinal place, and hemiretinal transfer. AD618588
- 64-10   Freud, S. L: Duration as a measure of the spiral aftereffect. AD618589
- 64-11   Pinkerson, A. L., Kot, P. A., and Knowlan, D. M: Effect of glyceryl trinitrate on pulmonary vasculature of anesthetized dogs.
- 64-12   Scarborough, W. R: Comments on progress in ballistocardiographic research and the current state of the art. AD455651
- 64-13   Gogel, W. C: The size cue to visually perceived distance. AD456655
- 64-14   Capps, M. J., and Collins, W. E: Effects of bilateral caloric habituation on nystagmus responses of the cat. AD455652
- 64-15   Collins, W. E., and Huffman, H. W: Design and performance characteristics of a mechanically driven vestibular stimulator. AD456656
- 64-16   Tobias, J. V., Collins, W. E., and Allen, M. E: Aviation medicine translations: Annotated bibliography of recently translated material. II. AD456670
- 64-17   Freud, S. L: The physiological locus of the spiral aftereffect. AD611881
- 64-18   Melton, C. E., Jr: Physiological recordings from pilots operating an aircraft simulator. AD456671
- 64-19   Perloff, J. K: The recognition of strictly posterior myocardial infarction by conventional scalar electrocardiography. AD611882
- 64-20   FAA Aviation Medical Library: Aviation medical papers and reports: a bibliography. AD613364

**1965**

- 65-1 Capps, M. J., and Collins, W. E: Auditory fatigue: Influence of mental factors. AD459636
- 65-2 Collins, W. E., and Capps, M. J: Effects of several mental tasks on auditory fatigue. AD459637
- 65-3 Reighard, H. L: Medical services at airports. AD611883
- 65-4 Seipel, J. H., Ziemnowicz, S. A. R., and O'Doherty, D. S: Cranial impedance plethysmography—Rheoencephalography as a method of detection of cerebrovascular disease. AD611884
- 65-5 Hauty, G. T., Trites, D. K., and Berkley, W. J: Biomedical survey of ATC facilities: I. Incidence of self-reported symptoms. AD689806
- 65-6 Hauty, G. T., Trites, D. K., and Berkley, W. J: Biomedical survey of ATC facilities: II. Experience and age. N66-16669
- 65-7 Mohler, S. R., Swearingen, J. J., McFadden, E. B., and Garner, J. D: Human factors of emergency evacuation. AD459638
- 65-8 Van Brummelen, A. G. W., Scarborough, W. R., and Josenhans, W. K. T: On the elimination of pulse wave velocity in stroke volume determination from the ultralow frequency displacement ballistocardiogram. AD612450
- 65-9 Lowenstein, O., Feinberg, R., and Loewenfeld, I: Pupillary movements during acute and chronic fatigue. AD612451
- 65-10 O'Connor, W. F., and Pearson, R. G: ATC system error and appraisal of controller proficiency. N66-16583
- 65-11 Gogel, W. C: The equidistance tendency and its consequences: Problems in depth perception. AD621432
- 65-12 Snyder, R. G: Survival of high-velocity free-falls in water. AD621021
- 65-13 Mohler, S. R: Fatigue in aviation activities. AD620022
- 65-14 Snow, C. C., and Hasbrook, A. H: The angle of shoulder slope in normal males as a factor in shoulder-harness design. AD653920
- 65-15 Scarborough, W. R. (Joint NASA-FAA publication): Ballistocardiography: a bibliography. N65-35520
- 65-16 Hauty, G. T., and Adams, T: Pilot fatigue: Intercontinental jet flight: Oklahoma City-Tokyo. AD621433
- 65-17 Allen, M. E., Collins, W. E., Tobias, J. V., and Crain, R. A: Aviation medicine translations: Annotated bibliography of recently translated material. III. AD617090
- 65-18 Collins, W. E: Adaptation to vestibular disorientation: I. Vertigo and nystagmus following repeated clinical stimulation. AD617091
- 65-19 Cobb, B. B., Jr: Problems in air traffic management: V. Identification and potential of aptitude test measures for selection of tower air traffic controller trainees. AD620722
- 65-20 Swearingen, J. J: Tolerances of the human face to crash impact. AD621434
- 65-21 Trites, D. K: Problems in air traffic management: VI. Interaction of training-entry age with intellectual and personality characteristics of air traffic control specialists. AD620721

***Part I: Chronological Index***

---

- 65-22 Trites, D. K., Miller, M. C., and Cobb, B. B., Jr: Problems in air traffic management. VII. Job and training performance of air traffic control specialists—measurement, structure, and prediction. AD649292
- 65-23 Swearingen, J. J., and Young, J. W: Determination of centers of gravity of children, sitting and standing. AD661865
- 65-24 Collins, W. E: Adaptation to vestibular disorientation. II. Nystagmus and vertigo following high-velocity angular accelerations. AD621435
- 65-25 Feinberg, R., and Podolak, E: Latency of pupillary reflex to light stimulation and its relationship to aging. AD689809
- 65-26 Snow, C. C., and Snyder, R. G: Anthropometry of air traffic control trainees. N66-25185
- 65-27 Brake, C. M., Reins, D., Wittmers, L. E., and Hinshaw, L. B. Intrarenal hemodynamic changes following acute partial renal arterial occlusion. AD649263
- 65-28 Hauty, G. T., and Adams, T: Phase shifts of the human circadian system and performance deficit during the periods of transition: I, East-West flight. AD639637
- 65-29 Hauty, G. T., and Adams, T: Phase shifts of the human circadian system and performance deficit during the periods of transition: II. West-East flight. AD689811
- 65-30 Hauty, G. T., and Adams, T: Phase shifts of the human circadian system and performance deficit during the periods of transition: III. North-South flight. AD689812
- 65-31 Pearson, R. G., Hunter, C. E., and Neal, G. L: Development and evaluation of a radar air traffic control research task. AD660198
- 65-32 Gogel, W. C., and Mertens, H. W: Problems in depth perception: A method of simulating objects moving in depth. AD660171
- 1966**
- 66-1 Allen, M. E., and Mohler, S. R: Aviation medicine reports: An annotated catalog of Office of Aviation Medicine reports: 1961 through 1965. AD638732
- 66-2 Allen, M. E., and Crain, R. A: Aviation medicine translations: Annotated bibliography of recently translated material. IV. AD651907
- 66-3 Mohler, S. R., and Swearingen, J. J: Cockpit design for impact survival. AD687411
- 66-4 Tobias, J. V: A table of intensity increments. AD642113
- 66-5 Clark, G: Problems in aerial application: A comparison of the effects of dieldrin poisoning in cold-adapted and room-temperature mammals. N66-30197
- 66-6 Fiorica, V: Fatigue and stress studies: An improved semiautomated procedure for fluorometric determination of plasma catecholamines. AD653748
- 66-7 McFadden, E. B: Evaluation of the physiological protective efficiency of a new prototype disposable passenger oxygen mask. AD644118

- 66-8 Mohler, S. R: The predominant causes of crashes and recommended therapy. AD639779
- 66-9 Young, J. W: Selected facial measurements of children for oxygen mask design. AD640062
- 66-10 O'Connor, W. F., and Pendergrass, G. E: Effects of decompression on operator performance. AD675774
- 66-11 Hinshaw, L. B., Reins, D. A., Emerson, T. E., Jr., Rieger, J. A., Jr., Stavinoha, W. B., Fiorica, V., Solomon, L. A., and Holmes, D. D: Problems in aerial application: I.—V. AD660199
- 66-12 Swearingen, J. J: Injury potentials of light-aircraft instrument panels. AD642114
- 66-13 McFadden, E. B., and Simpson, J. M: Flotation characteristics of aircraft-passenger seat cushions. AD642349
- 66-14 Iampietro, P. F., Fiorica, V., Dille, J. R., Higgins, E. A., Funkhouser, G., and Moses, R: Problems in aviation personnel: Influence of a tranquilizer on temperature regulation in man. AD638733
- 66-15 O'Connor, W. F., Scow, J., and Pendergrass, G. E: Hypoxia and performance decrement. AD639780
- 66-16 Lategola, M. T., Harrison, H. F., and Barnard, C: The aeromedical assessment of human systolic and diastolic blood-pressure transients without direct arterial puncture. AD639615
- 66-17 Naughton, J., Shanbour, K., Armstrong, R., McCoy, J., and Lategola, M. T: Problems in aeromedical certification: Cardiovascular responses to exercise following myocardial infarction. AD640970
- 66-18 Swearingen, J. J: Evaluation of head and face injury potential of current airline seats during crash decelerations. AD653869
- 66-19 Pearson, R. G: Performance tasks for operator-skills research. AD642115
- 66-20 McFadden, E. B., and Lategola, M. T: Evaluation of the Sierra hanging quick-don crew pressure-breathing oxygen mask. AD645493
- 66-21 Naughton, J., Lategola, M. T., and Shanbour, K: Clinical aviation medicine: A physical-conditioning program for cardiac patients. AD640969
- 66-22 Gogel, W. C., and Mertens, H. W: Problems in depth perception: Perceived size and distance of familiar objects. AD641477
- 66-23 Iampietro, P. F., and Adams, T: The achievement of thermal balance and its maintenance during environmental stress. AD642350
- 66-24 Agee, F. L., Jr., and Gogel, W. C: Problems in depth perception: Equidistance judgments in the vicinity of a binocular illusion. AD641476
- 66-25 Mohler, S. R., Freud, S. L., Veregge, J. E., and Umberger, E. L: Physician flight accidents. AD648768
- 66-26 Clark, G: Problems in aerial application: Histochemistry of Weil stain on liver. AD652599
- 66-27 Dille, J. R., and Morris, Edward W: Human factors in general aviation accidents. AD640971
- 66-28 Mohler, S. R: Oxygen in general aviation. AD645497
- 66-29 Mohler, S. R: Recent findings on the impairment of airmanship by alcohol. AD644119

***Part I: Chronological Index***

---

- 66-30 Mohler, S. R., and Harper, C. R: Protecting the Ag pilot. AD641478
- 66-31 Von Rosenberg, C. W., Keen, F. R., and Mohler, S. R: The "stall barrier" as a new preventive in general aviation accidents. AD642351
- 66-32 Mohler, S. R., and Hasbrook, A. H: In-flight response to a new non-gyroscopic blind flight instrument. AD641479
- 66-33 Young, J. W: Recommendations for shoulder restraint installation in general aviation aircraft. AD646054
- 66-34 Clark, G: Problems in aerial application: A comparison of the acute effects of endrin and carbon tetrachloride on the livers of rats and of the residual effects one month after poisoning. AD645494
- 66-35 Melton, C. E., Jr., and Wicks, S. M: Pilot vision considerations: The effect of age on binocular fusion time. AD645495
- 66-36 Nagle, F. J., Naughton, J., and Balke, B: Clinical aviation medicine research: Comparison of simultaneous measurements of intra-aortic and auscultatory blood pressure with pressure-flow dynamics during rest and exercise. AD645496
- 66-37 Collins, W. E: Adaptation to vestibular disorientation. III. Influence on adaptation of interrupting nystagmic eye movements with opposing stimuli. AD649615
- 66-38 Mertens, H. W: A homogeneous field for light adaptation.
- 66-39 Melton, C. E., Jr., Higgins, E. A., Saldivar, J. T., and Wicks, S. M: Exposure of men to intermittent photic stimulation under simulated IFR conditions. AD646872
- 66-40 Swearingen, J. J: Evaluation of various padding materials for crash protection. AD647048
- 66-41 McKenzie, J. M., and Fiorica, V: Physiological responses of pilots to severe-weather flying. AD646871
- 66-42 Garner, J. D., and Blethrow, J. G: Emergency evacuation tests of a crashed L-1649. AD645423
- 1967**
- 67-1 Cobb, B. B., Jr: The relationships between chronological age, length of experience, and job performance ratings of air route traffic control specialists. AD661468
- 67-2 Mertens, R. A., and Collins, W. E: Adaptation to vestibular disorientation. IV. Responses to angular acceleration and to bilateral caloric stimulation following unilateral caloric habituation. AD653696
- 67-3 McFadden, E. B: Development of techniques for evaluating the physiological protective efficiency of civil aviation oxygen equipment. AD659498
- 67-4 McFadden, E. B., Reynolds, H. I., and Funkhouser, G. E: A protective passenger smoke hood. AD657436
- 67-5 Fowler, P. R., and McKenzie, J. M: Problems in aerial application: Detection of mild poisoning by organophosphorus pesticides using an automated method for cholinesterase activity. AD656211
- 67-6 Collins, W. E., and Guedry, F. E., Jr: Adaptation to vestibular disorientation. V. Eye-movement and subjective turning responses to two durations of angular acceleration. N67-38956
- 67-7 Guedry, F. E., Jr., and Collins, W. E: Adaptation to vestibular disorientation. VI. Eye-movement and subjective turning responses to varied durations of angular acceleration. AD671855

*Part I: Chronological Index*

- 67-8 Lewis, M. F., and Ashby, F. K: Diagnostic tests of color-defective vision: Annotated bibliography, 1956-1966. AD660200
- 67-9 McFadden, E. B., Harrison, H. F., and Simpson, J. M: Performance characteristics of constant-flow phase dilution oxygen mask designs for general aviation. AD660201
- 67-10 Rowland, R. C., Jr., and Tobias, J. V: Interaural intensity difference limen. AD661235
- 67-11 Seipel, J. H: The biophysical basis and clinical applications of rheoencephalography. AD673082
- 67-12 Collins, W. E: Adaptation to vestibular disorientation. VII. Special effects of brief periods of visual fixation on nystagmus and sensations of turning. AD659192
- 67-13 Young, J. W: A functional comparison of basic restraint systems. AD660202
- 67-14 Swearingen, J. J: An evaluation of potential decompression hazards in small pressurized aircraft. AD660203
- 67-15 Melton, C. E., Jr., and Wicks, S. M: In-flight physiological monitoring of student pilots. AD665660
- 67-16 Lewis, M. F: Cross-modality matching of loudness to brightness for flashes of varying luminance and duration. AD664463
- 67-17 Funkhouser, G. E., and Billings, S. M: A portable device for the measurement of evaporative water loss. AD664465
- 67-18 Gogel, W. C: Cue-enhancement as a function of task-set. AD664466
- 67-19 Collins, W. E: Adaptation to vestibular disorientation. VIII. "Coriolis" vestibular stimulation and the influence of different visual surrounds. N68-16799
- 67-20 Gogel, W. C., and Mertens, H. W: Perceived depth between familiar objects. AD665293
- 67-21 Crane, C. R., and Sanders, D. C: Evaluation of a biocidal turbine-fuel-additive. AD665661
- 67-22 Mohler, S. R., Bedell, R. H. S., Ross, A., and Veregge, E. J: Aircraft accidents by older persons. AD663688
- 67-23 Veregge, E. J: Type airman certification as related to accidents. AD663688
- 67-24 Lewis, M. F., and Mertens, H. W: Reaction time as a function of flash luminance and duration. AD664464
- 67-25 Siegel, P. V: Aviation medicine, FAA-1966. AD675943
- 1968**
- 68-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1967. AD673666
- 68-2 Collins, W. E: Adaptation to vestibular disorientation: IX. Influence of head position on the habituation of vertical nystagmus. AD677460
- 68-3 Podolak, E., Kinn, J. B., and Westura, E. E: Biomedical applications of a commercial capacitance transducer. AD683292
- 68-4 Fiorica, V., Burr, M. J., and Moses, R: Contribution of activity to the circadian rhythm in excretion of magnesium and calcium. AD674416

***Part I: Chronological Index***

---

- 68-5 Booze, C. F., Jr: Usage of combined airman certification by active airmen: An active airman population estimate. AD678947
- 68-6 Crosby, W. M., Snyder, R. G., Snow, C. C., and Hanson, P. G: Impact injuries in pregnancy. I. Experimental studies. AD674861
- 68-7 Allen, M. E., and Mertens, R. A: Aviation medicine translations: Annotated bibliography of recently translated material. V. AD673665
- 68-8 Mohler, S. R., Dille, J. R., and Gibbons, H. L: Circadian rhythms and the effects of long-distance flights. AD672898
- 68-9 Siegel, P. V., and Booze, C. F., Jr: A retrospective analysis of aeromedical certification denial actions. January 1961—December 1967. AD675521
- 68-10 Collins, W. E., and Schroeder, D. J: The spiral aftereffect: Influence of stimulus size and viewing distance on the duration of illusory motion. AD673644
- 68-11 Hasbrook, A. H., and Young, P. E: Pilot response to peripheral vision cues during instrument flying tasks. AD684804
- 68-12 Hasbrook, A. H., and Young, P. E: Peripheral vision cues: Their effect on pilot performance during instrument landing approaches and recoveries from unusual attitudes. AD683305
- 68-13 Vaughan, J. A., Higgins, E. A., Funkhouser, G. E., and Galerston, E. M: The effects of body thermal state on manual performance. AD675522
- 68-14 Cobb, B. B., Jr: A comparative study of air traffic trainee aptitude-test measures involving Navy, Marine Corps, and FAA controllers. AD686669
- 68-15 Higgins, E. A., Davis, A. W., Jr., Fiorica, V., Iampietro, P. F., Vaughan, J. A., and Funkhouser, G. E: Effects of two antihistaminecontaining compounds upon performance at three altitudes. AD676502
- 68-16 Dille, J. R., and Mohler, S. R: Drug and toxic hazards in general aviation. AD686670
- 68-17 Thackray, R. I., and Pearson, D. W: The effects of cognitive appraisal of stress on heart rate and task performance. AD687413
- 68-18 Higgins, E. A., Davis, A. W., Jr., Vaughan, J. A., Funkhouser, G. E., and Galerston, E. M: The effects of alcohol at three simulated aircraft cabin conditions. AD686671
- 68-19 Snyder, R. G., and Snow, C. C: Fatal injuries resulting from extreme water impact. AD688424
- 68-20 Lewis, M. F: Two-flash thresholds as a function of flash luminance and area. AD686672
- 68-21 Tobias, J. V: Cockpit noise intensity: Fifteen single-engine light aircraft. AD686425
- 68-22 Hasbrook, A. H: A comparison of effects of peripheral vision cues on pilot performance during instrument flight in dissimilar aircraft simulators. AD688425
- 68-23 Fiorica, V: A table for converting pH to hydrogen ion concentration [H+] over the range 5-9. AD688120
- 68-24 Snyder, R. G., Snow, C. C., Crosby, W. M., Hanson, P., Fineg, J., and Chandler, R: Impact injury to the pregnant female and fetus in lap belt restraint. AD689359



- 68-25 Tobias, J. V: Cockpit noise intensity: Eleven twin-engine light aircraft. AD688111
- 68-26 Melton, C. E., Jr., Wicks, M., Saldivar, J. T., Morgan, J., and Vance, F. P: Physiological studies on air tanker pilots flying forest fire retardant missions. AD690090
- 68-27 Lewis, M. F., and Mertens, H. W: Assessment of the Broca-Sulzer phenomenon via inter- and intra-modality matching procedures: Studies of signal-light brightness. AD689358
- 68-28 Collins, W. E: Adaptation to vestibular disorientation. X. Modification of vestibular nystagmus and "vertigo" by means of visual stimulation. AD691405
- 1969**
- 69-1 Melton, C. E., Jr., and Wicks, M: Binocular fusion time in sleep-deprived subjects. AD688426
- 69-2 Siegel, P. V., and Mohler, S. R: *Medical factors in U.S. general aviation accidents.* AD689740
- 69-3 Snyder, R. G., Snow, C. C., Young, J. W., Crosby, W. M., and Price, G. T: Pathology of trauma attributed to restraint systems in crash impacts. AD690415
- 69-4 Snyder, R. G., Young, J. W., and Snow, C. C: Experimental impact protection with advanced restraint systems: Preliminary primate tests with air bag and inertia reel/inverted-Y yoke torso harness. AD695416
- 69-5 Snyder, R. G., Crosby, W. M., Snow, C. C., Young, J. W., and Hanson, P. G: Seat belt injuries in impact. AD698298
- 69-6 Chiles, W. D., Bruni, C. B., and Lewis, R. A: Methodology in the assessment of complex human performance: The effects of signal rate on monitoring a dynamic process. AD697943
- 69-7 Pearson, D. W., and Thackray, R. I: Consistency of performance change and autonomic response as a function of expressed attitude toward a specific stress situation. AD697944
- 69-8 Thackray, R. I: Patterns of physiological activity accompanying performance on a perceptual-motor task. AD697945
- 69-9 Chiles, W. D., Gibbons, H. L., and Smith, P. W: Effects of two common medications on complex performance. AD703631
- 69-10 Iampietro, P. F., Chiles, W. D., Higgins, E. A., Gibbons, H. L., Jennings, A. E., and Vaughan, J. A: Complex performance during exposure to high temperatures. AD703632
- 69-11 Booze, C. F., Jr: Occupations of active airmen. AD704474
- 69-12 Melton, C. E., Jr., Hoffmann, S. M., and Delafield, R. H: The use of a tranquilizer (chlordiazepoxide) in flight training. AD703221
- 69-13 Snyder, R. G., Snow, C. C., Young, J. W., Price, G. T., and Hanson, P. G: Experimental comparison of trauma in lateral (+Gy), rearwardfacing (+Gx), and forward-facing (-Gx) body orientations when restrained by lap belt only. AD707185
- 69-14 Chiles, W. D., and Jennings, A. E: Effects of alcohol on complex performance. AD703633
- 69-15 Williams, M. J., and Collins, W. E: The spiral aftereffect. II. Some influences of visual angle and retinal speed on the duration and intensity of illusory motion. AD703634

***Part I: Chronological Index***

---

- 69-16 Chiles, W. D., Bruni, C. B., and Lewis, R. A: Methodology in the assessment of complex performance: The effects of signal rate on monitoring a static process. AD703635
- 69-17 Siegel, P. V., Gerathewohl, S. J., and Mohler, S. R: Time-zone effects on the long-distance air traveler. AD702443
- 69-18 Siegel, P. V., Mohler, S. R., and Cierebiej, A: The safety significance of aircraft accident post mortem findings. AD704473
- 69-19 Pearson, D. W., Clark, G., and Moore, C. M: A comparison of the behavioral effects of various levels of chronic disulfoton poisoning. AD704470
- 69-20 Collins, W. E., and Updegraff, B. P: Adaptation to vestibular disorientation. XI. The influence of specific and nonspecific gravireceptors on nystagmic responses to angular acceleration. AD704471
- 69-21 Thackray, R. I., and Touchstone, R. M: Recovery of motor performance following startle. AD704472
- 69-22 Swearingen, J. J., Badgley, J. M., Braden, G. E., and Wallace, T. F: Determination of centers of gravity of infants. AD708514
- 69-23 Brecher, M. H., and Brecher, G. A: Motor effects from visually induced disorientation in man. AD708425
- 69-24 Gerathewohl, S. J: Fidelity of simulation and transfer of training: A review of the problem. AD706744
- 1970**
- 70-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1969. AD714027
- 70-2 Brecher, M. H., and Brecher, G. A: Quantitative evaluation of optically induced disorientation. AD709329
- 70-3 Ryan, L. C., Endecott, B. R., Hanneman, G. D., and Smith, P. W: Effects of an organophosphorus pesticide on reproduction in the rat. AD709327
- 70-4 Crane, C. R., Sanders, D. C., and Abbott, J. K: Studies on the storage stability of human blood cholinesterases: I. AD714028
- 70-5 Higgins, E. A., Vaughan, J. A., and Funkhouser, G. E: Blood alcohol concentrations as affected by combinations of alcoholic beverage dosages and altitudes. AD709328
- 70-6 Tobias, J. V: Auditory processing for speech intelligibility improvement. AD717394
- 70-7 Hasbrook, A. H., and Rasmussen, P. G: Pilot heart rate during in-flight simulated instrument approaches in a general aviation aircraft. AD711268
- 70-8 Fiorica, V., Higgins, E. A., Lategola, M. T., Davis, A. W., Jr., and Iampietro, P. F: Physiological responses of men during sleep deprivation. AD713590
- 70-9 Gerathewohl, S. J., Morris, Everett W., and Sirkis, J. A: Anti-collision lights for the supersonic transport (SST). AD713488
- 70-10 Collins, W. E., Schroeder, D. J., Rice, N., Mertens, R. A., and Kranz, G: Some characteristics of optokinetic eye-movement patterns: A comparative study. AD715440
- 70-11 Revzin, A. M: Some acute and chronic effects of endrin on the brain. AD715452

- 70-12 Mohler, S. R: Physiologically tolerable decompression profiles for supersonic transport type certification. AD713055
- 70-13 Crane, C. R., Sanders, D. C., and Abbott, J. K: A comparison of three serum cholinesterase methods. AD715439
- 70-14 Karson, S., and O'Dell, J. W: Performance ratings and personality factors in radar controllers. AD715247
- 70-15 Lewis, M. F., and Mertens, H. W: Two-flash thresholds as a function of comparison stimulus duration. AD716645
- 70-16 Snow, C. C., Carroll, J. J., and Allgood, M. A: Survival in emergency escape from passenger aircraft. AD735388
- 70-17 Collins, W. E: Effective approaches to disorientation familiarization for aviation personnel. AD719003
- 70-18 Lategola, M. T., Fiorica, V., Booze, C. F., Jr., and Folk, E. D: Comparison of status variables among accident and nonaccident airmen from the active airman population. AD722148
- 70-19 Garner, J. D., and Blethrow, J. G: Evacuation tests from an SST mockup. AD720627
- 70-20 McFadden, E. B., and Smith, R. C: Protective smoke hood studies. AD727021
- 70-21 Lategola, M. T., and Harrison, H. F: A device and method for rapid indirect measurement of human systolic and diastolic blood pressures. AD722032
- 70-22 Iampietro, P. F: Tolerances to thermal extremes in aerospace activities. AD722001
- 1971**
- 71-1 Tobias, J. V: Noise audiometry. AD723464
- 71-2 Melton, C. E., Jr., McKenzie, J. M., Polis, B. D., Funkhouser, G. E., and Iampietro, P. F: Physiological responses in air traffic control personnel: O'Hare Tower. AD723465
- 71-3 Swearingen, J. J: General aviation structures directly responsible for trauma in crash decelerations. AD728728
- 71-4 Iampietro, P. F: Use of skin temperature to predict tolerance to thermal environments. AD723466
- 71-5 Mertens, R. A., Goulden, D. R., Lacy, C. D., and Jones, K. N: Aviation medicine translations: Annotated bibliography of recently translated material. VI. AD723467
- 71-6 Schroeder, D. J: Alcohol and disorientation-related responses. I. Nystagmus and "vertigo" during caloric and optokinetic stimulation. AD728314
- 71-7 Thackray, R. I., and Jones, K. N: Effects of conflicting auditory stimuli on color-word interference and arousal. AD727018
- 71-8 Lategola, M. T: Biodynamic evaluation of air traffic control students between 1960-1963. AD726254
- 71-9 Cierebiej, A., Mohler, S. R., and Stedman, V. G: Physician pilot- in-command flight accidents, 1964 through 1970. AD724286
- 71-10 Gerathewohl, S. J., Mohler, S. R., and Siegel, P. V: Medical and psychological aspects of mass air transportation. AD726286

***Part I: Chronological Index***

---

- 71-11 Fiorica, V., Burr, M. J., and Moses, R: Effects of low-grade hypoxia on performance in a vigilance situation. AD727019
- 71-12 Swearingen, J. J: Acceptance tests of various upper torso restraints. AD726253
- 71-13 Swearingen, J. J: Tolerances of the human brain to concussion. AD726287
- 71-14 Smith, R. C: Assessment of a "stress" response-set in the Composite Mood Adjective Check List. AD727020
- 71-15 Fiorica, V., and Moses, R: Automated differential fluorometric analysis of norepinephrine and epinephrine in blood plasma and urine. AD729535
- 71-16 Schroeder, D. J: Alcohol and disorientation-related responses. II. Nystagmus and "vertigo" during angular acceleration. AD730629
- 71-17 Chiles, W. D., Iampietro, P. F., Higgins, E. A., Vaughan, J. A., West, G., and Funkhouser, G. E: Combined effects of altitude and high temperature on complex performance. AD729536
- 71-18 Gibbons, H. L., and Fromhagen, C: Aeromedical transportation and general aviation. AD728315
- 71-19 Lategola, M. T: Changes in cardiovascular health parameters over an eight-year interval in an ATC population segment. AD729537
- 71-20 Collins, W. E., Gilson, R. D., Schroeder, D. J., and Guedry, F. E., Jr: Alcohol and disorientation-related responses. III. Effects of alcohol ingestion on tracking performance during angular acceleration. AD728843
- 71-21 Smith, R. C., Melton, C. E., Jr., and McKenzie, J. M: Affect adjective check list assessment of mood variations in air traffic controllers. AD729832
- 71-22 Brecher, M. H., and Brecher, G. A: Effect of a moving optical environment on the subjective median. AD728316
- 71-23 Melton, C. E., Jr., and Fiorica, V: Physiological responses of low-time private pilots to cross-country flying. AD728317
- 71-24 Hasbrook, A. H., and Rasmussen, P. G: Aural glide slope cues: Their effect on pilot performance during in-flight simulated ILS instrument approaches, AD731848
- 71-25 Norwood, G. K: The philosophy and limitations of FAA aeromedical standards, policies, and procedures. AD729538
- 71-26 Friedberg, W., and Nelson, J. M: Calibration of the Concorde radiation detection instrument and measurements at SST altitude. AD732789
- 71-27 Lewis, M. F., and Steen, J. A: Color-defective vision and the recognition of aviation color signal light flashes. AD729539
- 71-28 Chiles, W. D., and Smith, R. C: A nonverbal technique for the assessment of general intellectual ability in selection of aviation personnel. AD728844
- 71-29 Thackray, R. I., Touchstone, R. M., and Jones, K. N: The effects of simulated sonic booms on tracking performance and autonomic response. AD729833
- 71-30 Smith, R. C., Cobb, B. B., Jr., and Collins, W. E: Attitudes and motivational factors in terminal area air traffic control work. AD730630

*Part I: Chronological Index*

- 71-31 Mehling, K. D., Collins, W. E., and Schroeder, D. J: The spiral aftereffect: III. Some effects of perceived size, retinal size, and retinal speed on the duration of illusory motion. AD729834
- 71-32 Steen, J. A., and Lewis, M. F: Color defective vision and day and night recognition of aviation color signal light flashes. AD730631
- 71-33 Mohler, S. R., and Gerathewohl, S. J: Civil aeromedical standards for general-use aerospace transportation vehicles. AD728318
- 71-34 Gilson, R. D., Schroeder, D. J., Collins, W. E., and Guedry, F. E., Jr: Alcohol and disorientation-related responses. IV. Effects of different alcohol dosages and display illumination on tracking performance during vestibular stimulation. AD729835
- 71-35 Smith, R. C: Personality assessment in aviation: An analysis of the item ambiguity characteristics of the 16PF and MMPI. AD736266
- 71-36 Cobb, B. B., Jr., Lay, C. D., and Bourdet, N. M: The relationship between chronological age and aptitude test measures of advanced-level air traffic control trainees. AD733830
- 71-37 McFadden, E. B., and Young, J. W: Evaluation of an improved flotation device for infants and small children. AD729836
- 71-38 Norwood, G. K: Senior aviation medical examiners conducting FAA first-class medical examinations. AD731849
- 71-39 Hill, R. J., Collins, W. E., and Schroeder, D. J: Alcohol and disorientation-related responses: V. The influence of alcohol on positional, rotatory, and coriolis vestibular responses over 32-hour periods. AD735389
- 71-40 Cobb, B. B., Jr: Air traffic aptitude test measures of military and FAA controller trainees. AD737871
- 71-41 Higgins, E. A., Fiorica, V., Davis, H. V., and Thomas, A. A: The acute toxicity of brief exposure of HF, HCl, and NO<sub>2</sub> and HCN singly and in combination with CO. AD735160
- 71-42 Mertens, H. W., and Lewis, M. F: Discrimination of short-duration (two-pulse) flashes as a function of signal luminance and method of measurement. AD737872
- 1972**
- 72-1 Dille, J. R., and Grimm, M. H: Index to FAA Office of Aviation Medicine Reports: 1961 through 1971. AD742607
- 72-2 Yanowitch, R. E., Mohler, S. R., and Nichols, E. A: The psycho-social reconstruction inventory: A postdictal instrument in aircraft accident investigation. AD738464
- 72-3 Sirkis, J. A: The benefits of the use of shoulder harness in general aviation aircraft. AD739943
- 72-4 Billings, C. E., Wick, R. L., Jr., Gerke, R. J., and Chase, R. C: The effects of alcohol on pilot performance during instrument flight. AD740778
- 72-5 Chiles, W. D., Jennings, A. E., and West, G: Multiple-task performance as a predictor of the potential of air traffic controller trainees. AD741736
- 72-6 Lowrey, D. L., Langston, E. D., Reed, W., and Swearingen, J. J: Effectiveness of restraint equipment in enclosed areas. AD739944

***Part I: Chronological Index***

---

- 72-7 Langston, E. D., and Swearingen, J. J: Evaluation of a fiberglass instrument glare shield for protection against head injury. AD740732
- 72-8 Zeiner, A. R., and Brecher, G. A: Effects of backscatter of brief high-intensity light on physiological responses of instrument-rated pilots and non-pilots. AD744234
- 72-9 Rasmussen, P. G., and Hasbrook, A. H: Pilot tracking performance during successive in-flight simulated instrument approaches. AD743392
- 72-10 McFadden, E. B: Physiological evaluation of a modified jet transport passenger oxygen mask. AD743422
- 72-11 Chiles, W. D., and Jennings, A. E: Effects of alcohol on a problem-solving task. AD743423
- 72-12 Crane, C. R., Sanders, D. C., and Abbott, J. K: A comparison of serum cholinesterase methods: II. AD744866
- 72-13 Booze, C. F., Jr: Attrition from active airman status during 1970. AD742608
- 72-14 Thackray, R. I., Jones, K. N., and Touchstone, R. M: The color- word interference test and its relation to performance impairment under auditory distraction. AD743424
- 72-15 Swearingen, J. J., Wallace, T. F., Blethrow, J. G., and Rowlan, D. E: Crash survival analysis of 16 agricultural aircraft accidents. AD745257
- 72-16 Jones, K. N., Goulden, D. R., and Grimm, E. J: Aviation medicine translations: Annotated bibliography of recently translated material. VII. AD747125
- 72-17 Iampietro, P. F., Melton, C. E., Jr., Higgins, E. A., Vaughan, J. A., Hoffman, S. M., Funkhouser, G. E., and Saldivar, J. T: High temperature and performance in a flight task simulator. AD746057
- 72-18 Cobb, B. B., Jr., and Mathews, J. J: A proposed new test for aptitude screening of air traffic controller applicants. AD746058
- 72-19 Chiles, W. D., and West, G: Residual performance effects of simulated sonic booms introduced during sleep. AD747989
- 72-20 Lategola, M. T: The use of simple indicators for detecting potential coronary heart disease susceptibility in the air traffic controller population. AD747990
- 72-21 Jennings, A. E., Chiles, W. D., and West, G: Methodology in the measurement of complex human performance: Two-dimensional compensatory tracking. AD745259
- 72-22 Cobb, B. B., Jr., Mathews, J. J., and Lay, C. D: A comparative study of female and male air traffic controller trainees. AD751312
- 72-23 Smith, R. C: A study of the State-Trait Anxiety Inventory and the assessment of stress under simulated conditions. AD747991
- 72-24 Smith, R. C., and Hutto, G. L: Sonic booms and sleep: Affect change as a function of age. AD749277
- 72-25 Thackray, R. I., Jones, K. N., and Touchstone, R. M: Self-estimate of distractibility as related to performance decrement on a task requiring sustained attention. AD751396
- 72-26 Lategola, M. T: The use of simple indicators for detecting potential coronary heart disease susceptibility in the third-class airman population. AD749278

- 72-27 Karim, B., Bergey, K. H., Chandler, R. F., Hasbrook, A. H., Purswell, J. L., and Snow, C. C: A preliminary study of maximal control force capability of female pilots. AD753987
- 72-28 Mohler, S. R: G effects on the pilot during aerobatics. AD751397
- 72-29 Lewis, M. F., Mertens, H. W., and Steen, J. A: Behavioral changes from chronic exposure to pesticides used in aerial application: Effects of Phosdrin on the performance of monkeys and pigeons on variable interval reinforcement schedules. AD749893
- 72-30 Folk, E. D., Garner, J. D., Cook, E. A., and Broadhurst, J. L: GPSS/360 computer models to simulate aircraft passenger emergency evacuation. AD755542
- 72-31 Tobias, J. V: Binaural processing of speech in light aircraft. AD753637
- 72-32 Tobias, J. V: Auditory effects of noise on air-crew personnel. AD757239
- 72-33 Cobb, B. B., Jr., Mathews, J. J., and Nelson, P. L: Attrition-retention rates of air traffic controller trainees recruited during 1960-1963 and 1968-1970. AD757933
- 72-34 Schroeder, D. J., Gilson, R. D., Guedry, F. E., and Collins, W. E: Alcohol and disorientation-related responses. VI. Effects of alcohol on eye movements and tracking performance during laboratory angular accelerations about the yaw and pitch axes. AD766937
- 72-35 Collins, W. E., and Iampietro, P. F: Simulated sonic booms and sleep: Effects of repeated booms of 1.0 psf. AD762988
- 1973**
- 73-1 Braden, G. E., Reed, W., and Swearingen, J. J: Application of commercial aircraft accident investigation techniques to a railroad derailment. AD764188
- 73-2 Smith, R. C: Job attitudes of air traffic controllers: A comparison of three air traffic control specialties. AD763508
- 73-3 Revzin, A. M: Subtle changes in brain functions produced by single doses of mevinphos (Phosdrin). AD763509
- 73-4 Revzin, A. M: Transient blindness due to the combined effects of mevinphos and atropine. AD763555
- 73-5 Yanowitch, R. E., Bergin, J. M., and Yanowitch, E. A: The aircraft as an instrument of self-destruction. AD763556
- 73-6 Lewis, M. F: Frequency of anticollision observing responses by solo pilots as a function of traffic density, ATC traffic warnings, and competing behavior. AD763557
- 73-7 Cobb, B. B., Jr., Nelson, P. L., and Mathews, J. J: The relationships of age and ATC experience to job performance rating of terminal area traffic controllers. AD773449
- 73-8 Booze, C. F., Jr: Prevalence and incidence of disease among airmen medically certified during 1965. AD773544
- 73-9 Hasbrook, A. H., and Rasmussen, P. G: In-flight performance of civilian pilots using moving-aircraft and moving-horizon attitude indicators. AD773450
- 73-10 Lategola, M. T., Lynn, C. A., Folk, E. D., Booze, C. F., Jr., and Lyne, P. J: Height and weight errors in aeromedical certification data. AD773452

***Part I: Chronological Index***

---

- 73-11 Thackray, R. I., Rylander, R., and Touchstone, R. M: Sonic boom startle effects: Report of a field study. AD773451
- 73-12 Lewis, M. F., and Ferraro, D. P: Flying high: The aeromedical aspects of marihuana. AD775889
- 73-13 Tobias, J. V., and Irons, F. M: Reception of distorted speech. AD777564
- 73-14 Thackray, R. I., Jones, K. N., and Touchstone, R. M: Personality and physiological correlates of performance decrement on a monotonous task requiring sustained attention. AD777825
- 73-15 Smith, R. C., and Melton, C. E., Jr: Susceptibility to anxiety and shift difficulty as determinants of state anxiety in air traffic controllers. AD777565
- 73-16 Thackray, R. I., Touchstone, R. M., and Bailey, J. P: A comparison of the startle effects resulting from exposure to two levels of simulated sonic booms. AD777581
- 73-17 Schroeder, D. J., Collins, W. E., and Elam, G. W: Effects of secobarbital and d-amphetamine on tracking performance during angular acceleration. AD777582
- 73-18 Steen, J. A., Collins, W. E., and Lewis, M. F: Utility of several clinical tests of color-defective vision in predicting daytime and nighttime performance with the aviation signal light gun. AD777563
- 73-19 Constant, G. N., Goulden, D. R., and Grimm, E. J: Aviation medicine translations: Annotated bibliography of recently translated material. VIII. AD776136
- 73-20 Tobias, J. V., and Irons, F. M: Ear-protector ratings. AD779552
- 73-21 Melton, C. E., Jr., McKenzie, J. M., Polis, B. D., Hoffmann, S. M., and Saldivar, J. T: Physiological responses in air traffic control personnel: Houston Intercontinental Tower. AD777838
- 73-22 Melton, C. E., Jr., McKenzie, J. M., Smith, R. C., Polis, B. D., Higgins, E. A., Hoffmann, S. M., Funkhouser, G. E., and Saldivar, J. T: Physiological, biochemical, and psychological responses in air traffic control personnel: Comparison of the 5-day and 2-2-1 shift rotation patterns. AD778214
- 73-23 Leeper, R. C., Hasbrook, A. H., and Purswell, J. L: Study of control force limits for female pilots. AD777839
- 1974**
- 74-1 Dille, J. R., and Grimm, M. H: Index to FAA Office of Aviation Medicine Reports: 1961 through 1973. AD779553
- 74-2 Mathews, J. J., Collins, W. E., and Cobb, B. B: A sex comparison of reasons for attrition of nonjourneyman FAA air traffic controllers. AD780558
- 74-3 Collins, W. E: Adaptation to vestibular disorientation. XII. Habituation of vestibular responses: an overview. AD780562
- 74-4 Young, J. W., Fisher, R. G., Price, G. T., and Chandler, R. F: Experimental trauma of occipital impacts. AD780668
- 74-5 Booze, C. F., Jr: Characteristics of medically disqualified airman applicants during calendar year 1971. AD781684
- 74-6 Lategola, M. T., and Layne, P. J: Amplitude/frequency differences in a supine resting single-lead electrocardiogram of normal versus coronary heart diseased males. AD781685
- 74-7 Mathews, J. J., Collins, W. E., and Cobb, B. B., Jr: Job-related attitudes of nonjourneyman FAA air traffic controllers and former controllers: a sex comparison. AD787238



- 74-8 Cobb, B. B., Jr., and Nelson, P. L: Aircraft-pilot and other pre-employment experience as factors in the selection of air traffic controller trainees. ADA001039
- 74-9 Thackray, R. I., Touchstone, R. M., and Bailey, J. P: Behavioral, autonomic, and subjective reactions to low- and moderate-level sonic booms: A report of two experiments and a general evaluation of sonic boom startle effects. ADA002266
- 74-10 Chiles, W. D., and West, G: Multiple-task performance as a predictor of the potential of air traffic controller trainees: A followup study. ADA002920
- 74-11 Melton, C. E., Jr., McKenzie, J. M., Saldivar, J. T., and Hoffmann, S. M: Comparison of Opa Locka Tower with other ATC facilities by means of a biochemical stress index. ADA008378
- 74-12 Smith, R. C: A realistic view of the people in air traffic control. ADA006789
- 1975**
- 75-1 Jones, K. N., Steen, J. A., and Collins, W. E: Predictive validities of several clinical color vision tests for aviation signal light gun performance. ADA006792
- 75-2 Snow, C. C., Reynolds, H. M., and Allgood, M. A: Anthropometry of airline stewardesses. ADA012965
- 75-3 Mathews, J. J., Cobb, B. B., Jr., and Collins, W. E: Attitudes on en route air traffic control training and work: A comparison of recruits initially trained at the FAA Academy and recruits initially trained at assigned centers. ADA013343
- 75-4 Collins, W. E., Lennon, A. O., and Grimm, E. J: The use of vestibular tests in civil aviation medical examinations: Survey of practices and proposals by aviation medical examiners. ADA015087
- 75-5 Ryan, L. C., Gerathewohl, S. J., Mohler, S. R., and Booze, C. F., Jr: To see or not to see: Visual acuity of pilots involved in midair collisions. ADA016277
- 75-6 Lewis, M. F., Ferraro, D. P., Mertens, H. W., and Steen, J. A: Interaction between marihuana and altitude on a complex behavioral task in baboons. ADA020680/5GI
- 75-7 Melton, C. E., Jr., Smith, R. C., McKenzie, J. M., Saldivar, J. T., Hoffmann, S. M., and Fowler, P. R: Stress in air traffic controllers: Comparison of two air route traffic control centers on different shift rotation patterns. ADA020679/7GI
- 75-8 Thackray, R. I., Bailey, J. P., and Touchstone, R. M: Physiological, subjective, and performance correlates of reported boredom and monotony while performing a simulated radar control task. ADA025426/8GI
- 75-9 Smith, R. C., Rana, B., and Taylor, D. K: An evaluation of the effectiveness of the FAA Management Training School. ADA025254/4GI
- 75-10 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Iampietro, P. F., Winget, C. M., Funkhouser, G. E., Burr, M. J., Vaughan, J. A., and Jennings, A. E: The effects of a 12-hour shift in the wake-sleep cycle on the physiological and biochemical responses and on multiple-task performance. ADA021518/GGI
- 75-11 Tobias, J. V: Earplug ratings based on the protector-attenuation rating (P-AR). ADA024756/9GI
- 75-12 Hasbrook, A. H., Rasmussen, P. G., and Willis, D. M: Pilot performance and heart rate during in-flight use of a compact instrument display. ADA021519/4GI

*Part I: Chronological Index*

---

- 75-13 Reynolds, H. M., and Allgood, M. A: Functional strength of commercial-airline stewardesses. ADA021836/2GI
- 75-14 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Iampietro, P. F., Vaughan, J. A., Funkhouser, G. E., Burr, M. J., Jennings, A. E., and West, G: The effects of dextroamphetamine on physiological responses and complex performance during sleep loss. ADA021520/2GI
- 1976**
- 76-1 Jennings, A. E., and Chiles, W. D: An investigation of time-sharing ability as a factor in complex performance. ADA031881/GGA
- 76-2 Smith, R. C., and Melton, C. E: Effects of ground trainer use on the psychological and physiological states of students in private pilot training. ADA024704/9GI
- 76-3 Tobias, J. V: Massed versus distributed practice in learned improvement of speech intelligibility. ADA024705/GGI
- 76-4 Constant, G. N., Grimm, E. J., Goulden, D. R., and Murcko, L. E: Aviation medicine translations: Annotated bibliography of recently translated material. IX. ADA031492/2GA
- 76-5 Vaughan, J. A., and Welsh, K. W: Visual evaluation of smoke-protective devices. ADA031493/0GI
- 76-6 Cobb, B. B., Jr., Young, C. L., and Rizzuti, B. L: Education as a factor in the selection of air traffic controller trainees. ADA031880/8GI
- 76-7 Dille, J. R., and Booze, C. F., Jr: Accident experience of civilian pilots with static physical defects. ADA029431/4GI
- 76-8 Reighard, H. L: Aviation medicine. ADA032558/9GI
- 76-9 Young, J. W., Reynolds, H. M., McConville, J. T., Snyder, R. G., and Chandler, R. F: Development and evaluation of masterbody forms for 3- and 6-year-old-child dummies. ADA037547/7GI
- 76-10 Dark, S. J: Characteristics of medically disqualified airman applicants in calendar years 1973 and 1974. ADA032603/3GI
- 76-11 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Funkhouser, G. E., Burr, M. J., Jennings, A. E., and Vaughan, J. A: Physiological, biochemical, and multiple-task-performance responses to different alterations of the wake-sleep cycle. ADA033889/7GI
- 76-12 Collins, W. E: Some effects of sleep deprivation on tracking performance in static and dynamic environments. ADA033331/0GI
- 76-13 Melton, C. E., Jr., Smith, R. C., McKenzie, J. M., Hoffmann, S. M., and Saldivar, J. T: Stress in air traffic controllers: Effects of ARTS-III. ADA034752/GGI
- 76-14 Lentz, J. M., and Collins, W. E: Three studies of motion sickness susceptibility. ADA036284/8GI
- 76-15 McKenzie, J. M: The aeromedical significance of sickle-cell trait. ADA038466/9GI

**1977**

- 77-1 Murcko, L. E., and Dille, J. R: Index to FAA Office of Aviation Medicine Reports: 1961 through 1976. ADA037234/2GI
- 77-2 Welsh, K. W., Vaughan, J. A., and Rasmussen, P. G: Survey of cockpit visual problems of senior pilots. ADA037587/3GI
- 77-3 Lategola, M. T., Flux, M., and Lyne, P. J: Spirometric assessment of potential respiratory impairment in general aviation airmen. ADA038296/0
- 77-4 Valdez, C. D: Ten-year survey of altitude chamber reactions using the FAA training chamber flight profiles. ADA03723/9GI
- 77-5 Saldivar, J. T., Hoffmann, S. M., and Melton, C. E: Sleep in air traffic controllers. ADA038297/8GI
- 77-6 Gerathewohl, S. J: Psychophysiological effects of aging: Developing a functional age index for pilots: I. A survey of the pertinent literature. ADA04032/0GI
- 77-7 Welsh, K. W., Rasmussen, P. G., and Vaughan, J. A: Intermediate visual acuity of presbyopic individuals with and without distance and bifocal lens corrections. ADA038538/5GI
- 77-8 Hanneman, G. D., Higgins, E. A., Price, G. T., Funkhouser, G. E., Grape, P. M., and Snyder, L: A study of effects of hyperthermia on large, short-haired male dogs: A simulated air transport environmental stress. ADA040432/7GI
- 77-9 Crane, C. R., Sanders, D. C., Endecott, B. R., Abbott, J. K., and Smith, P. W: Inhalation toxicology: I. Design of a small-animal test system. II. Determination of the relative toxic hazards of 75 aircraft cabin materials. ADA043646/9GI
- 77-10 Booze, C. F., Jr: An epidemiologic investigation of occupation, age, and exposure in general aviation accidents. ADA040978/9GI
- 77-11 Blethrow, J. G., Garner, J. D., Lowrey, D. L., Busby, D. E., and Chandler, R. F: Emergency escape of handicapped air travelers. ADA043269/0GI
- 77-12 Mertens, H. W: Perceived orientation of a runway model in nonpilots during simulated night approaches to landing. ADA044553/GGI
- 77-13 Welsh, K. W., Rasmussen, P. G., and Vaughan, J. A: Readability of alphanumeric characters having various contrast levels as a function of age and illumination mode. ADA044554/4GI
- 77-14 Welsh, K. W., Rasmussen, P. G., and Vaughan, J. A: Refractive error characteristics of early and advanced presbyopic individuals. ADA044555/1GI
- 77-15 Chiles, W. D: Objective methods for developing indices of pilot workload. ADA044556/9GI
- 77-16 Lategola, M. T., Flux, M., and Lyne, P. J: Altitude tolerance of general aviation pilots with normal or partially impaired spirometric function. ADA044557/7GI
- 77-17 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Davis, A. W., Jr., Funkhouser, G. E., Jennings, A. E., Mullen, S. R., and Fowler, P. R: Effects of lithium carbonate on performance and biomedical functions. ADA044824/1GI

***Part I: Chronological Index***

---

- 77-18 Thackray, R. I., Bailey, J. P., and Touchstone, R. M: The effect of increased monitoring load on vigilance performance using a simulated radar display. ADA044558/5GI
- 77-19 Smith, P. W., Robinson, C. P., Zelenski, J. D., and Endecott, B. R: The role of monamine oxidase inhibition in the acute toxicity of chlordimeform. ADA045507/1GI
- 77-20 Dille, J. R., and Booze, C. F: The 1975 accident experience of civilian pilots with static physical defects. ADA045429/8GI
- 77-21 Smith, R. C., and Hutto, G. L: Job attitudes of airway facilities personnel. ADA04641/3GI
- 77-22 Revzin, A. M: Functional localization in the nucleus rotundus. ADA047717/4GI
- 77-23 Melton, C. E., Smith, R. C., McKenzie, J. M., Wicks, S. M., and Saldivar, J. T: Stress in air traffic personnel: Low-density towers and flight service stations. ADA046826/4GI
- 77-24 Collins, W. E., Hasbrook, A. H., Lennon, A. O., and Gay, D. J: Disorientation training in FAA-certificated flight and ground schools: a survey. ADA047718/2GI
- 77-25 Dailey, J. T., and Pickrel, E. W: Development of new selection tests for air traffic controllers. ADA049049/0GI
- 1978**
- 78-1 McFadden, E. B. (Ed.): Flotation and survival equipment studies. ADA051869/GGI
- 78-2 Revzin, A. M: Effects of ethanol on visual unit activity in the thalamus. ADA05092/4GI
- 78-3 Pollard, D. W., Garner, J. D., Blethrow, J. G., and Lowrey, D. L: Passenger flow rates between compartments: Straight-segmented stairways, spiral stairways, and passageways with restricted vision and changes of attitude. ADA05148/1GI
- 78-4 deSteiguer, D., Pinski, M. S., Bannister, J. R., and McFadden, E. B: Aircrew and passenger protective breathing equipment studies. ADA05100/4GI
- 78-5 Higgins, E. A., Lategola, M. T., and Melton, C. E: Three reports relevant to stress in aviation personnel. ADA051690/GGI
- 78-6 Chandler, R. F., and Trout, E. M: Evaluation of seating and restraint systems and anthropomorphic dummies conducted during fiscal year 1976. ADA051691/4GI
- 78-7 Lewis, M. A: Use of the occupational knowledge test to assign extra credit in selection of air traffic controllers. ADA05367/5GI
- 78-8 Friedberg, W., Neas, B. R., Faulkner, D. N., Hanneman, G. D., and Darden, E. B., Jr: Radiobiological aspects of high altitude flight: Relative biological effectiveness of fast neutrons in suppressing immune capacity to an infective agent. ADA05320/4GI
- 78-9 McFadden, E. B: Human respiratory considerations for civil transport aircraft system. ADA053223/4GI
- 78-10 Boone, J. O: The relationship of predevelopmental "150" training with noncompetitively selected air traffic control trainees to FAA Academy success. ADA055009/5GI

- 78-11 Thackray, R. I., Touchstone, R. M., and Bailey, J. P: A comparison of the vigilance performance of men and women using a simulated radar task. ADA053674/8GI
- 78-12 Chandler, R. F., and Trout, E. M: Child restraint systems for civil aircraft. ADA053565/8GI
- 78-13 Kirkham, W. R., Collins, W. E., Grape, P. M., Simpson, J. M., and Wallace, T. F: Spatial disorientation in general aviation accidents. ADA053230/9GI
- 78-14 Young, J. W., and Pinski, M. S: Three-dimensional anthropometry of the adult face. ADA054938/GGI
- 78-15 Mertens, H. W: Comparison of the visual perception of a runway model in pilots and nonpilots during simulated night landing approaches. ADA054450/2GI
- 78-16 Gerathewohl, S. J: Psychophysiological effects of aging: Developing a functional age index for pilots: II. Taxonomy of psychological factors. ADA054356/1GI
- 78-17 Rasmussen, P. G., Welsh, K. W., and Vaughan, J. A: Comparative readability of enroute low altitude charts with and without terrain depiction. ADA054796/8GI
- 78-18 Melton, C. E., McKenzie, J. M., Saldivar, J. T., and Wicks, S. M: Experimental attempts to evoke a differential response to different stressors. ADA054795/0GI
- 78-19 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Jennings, A. E., Funkhouser, G. E., and Mullen, S. R: The effects of altitude and two decongestant-antihistamine preparations on physiological functions and performance. ADA054793/5GI
- 78-20 Lategola, M. T., Davis, A. W., Jr., Lyne, P. J., and Burr, M. J: Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances. ADA055089/7GI
- 78-21 Booze, C. F: The morbidity experience of air traffic control personnel, 1967-1977. ADA056053/26I
- 78-22 Welsh, K. W., Vaughan, J. A., and Rasmussen, P. G: Aeromedical implications of the X-Chrom lens for improving color vision deficiencies. ADA054794/3GI
- 78-23 Garner, J. D., Chandler, R. F., and Cook, E. A: GPSS computer simulation of aircraft passenger emergency evacuations. ADA056098/7GI
- 78-24 Chandler, R. F., and Trout, E. M: Evaluation of seating and restraint systems and anthropomorphic dummies conducted during fiscal year 1977. ADA056905/3GI
- 78-25 Dark, S. J., and Davis, A. W., Jr: Characteristics of medically disqualified airman applicants in calendar years 1975 and 1976. ADA058158/7GI
- 78-26 Robinson, C. P., Beiergrohslein, D., Smith, P. W., and Crane, C. R: Reactions of methamidophos with mammalian cholinesterases. ADA058683/4GI
- 78-27 Gerathewohl, S. J: Psychophysiological effects of aging: Developing a functional age index for pilots: III. Measurement of pilot performance. ADA062501/2GA
- 78-28 Welsh, K. W., Rasmussen, P. G., and Vaughan, J. A: Visual performance assessment through clear and sunscreen-treated windows. ADA059750/0GA
- 78-29 Welsh, K. W., Vaughan, J. A., and Rasmussen, P. G: Conspicuity assessment of selected propeller and tail rotor paint schemes. ADA061875/1GA

***Part I: Chronological Index***

---

- 78-30 McKenzie, J. M: Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. ADA056200/9GI
- 78-31 Lacefield, D. J., Roberts, P. A., and Blossom, C. W: Agricultural aviation versus other general aviation: Toxicological findings in fatal accidents. ADA060110/4GA
- 78-32 Smith, R. C: As evaluation of four MTS recurrent training courses. ADA061519/5GA
- 78-33 Chiles, W. D., and Jennings, A. E: Time-sharing ability in complex performance: An expanded replication. ADA061879/3GA
- 78-34 Chiles, W. D., Jennings, A. E., and Alluisi, E. A: The measurement and scaling of workload in complex performance. ADA061725/8GA
- 78-35 Reighard, H. L., and Dailey, J. T: Task force deterrence of air piracy—final report. ADA076457/1
- 78-36 Boone, J. O., and Lewis, M. A: The development of the ATC selection battery: A new procedure to make maximum use of available information when correcting correlations for restriction in range due to selection. ADA066131/2GA
- 78-37 Jennings, A. E: A method to evaluate performance reliability of individual subjects in laboratory research applied to work settings. ADA063731/4GA
- 78-38 Eighth Bethesda Conference of the American College of Cardiology, Washington, D.C., April 25-26, 1975: Cardiovascular problems associated with aviation safety. ADA066184/3GA
- 78-39 Rose, R. M., Jenkins, C. D., and Hurst, M. W: Air traffic controller health change study. Boston University School of Medicine. ADA063709/0GA
- 78-40 Melton, C. E., McKenzie, J. M., Wicks, S. M., and Saldivar, J. T: Stress in air traffic controllers: A restudy of 32 controllers 5 to 9 years later. ADA065767/6GA
- 78-41 Vaughan, J. A., Welsh, K. W., and Rasmussen, P. G: The optical properties of smoke-protective devices. ADA064678/6GA
- 1979**
- 79-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1978. ADA067983/7GA
- 79-2 Snow, C. C., Hartman, S., Giles, E., and Young, F. A: Sex and race determination of crania by calipers and computer: A test of the Giles and Elliot discriminant functions in 52 forensic cases. ADA065448/36A
- 79-3 Lewis, M. A: A comparison of three models for determining test fairness. ADA066586/9GA
- 79-4 Lewis, M. F., and Mertens, H. W: Pilot performance during simulated approaches and landings made with various computer-generated visual glidepath indicators. ADA066220/5GA
- 79-5 Tobias, J. V., and Kidd, G. D., Jr: Accoustic signals for emergency evacuation. ADA066113/2.A
- 79-6 Pollard, D. W: Injuries in air transport emergency evacuations. ADA069372/1GA
- 79-7 Collins, W. E., and Chiles, W. D: Laboratory performance during acute intoxication and hangover. ADA069373/9GA

- 79-8    Lategola, M. T., and Trent, C. C.: A lower body negative pressure box for +Gz simulation in the upright seated position. ADA069326/7GA
- 79-9    Schroeder, D. J., and Collins, W. E: Effects of congener and noncongener alcoholic beverages on a clinical ataxia battery. ADA069375/4GA
- 79-10   Higgins, E. A., McKenzie, J. M., Funkhouser, G. E., and Mullen, S. R: Effects of propranolol on time of useful function (TUF) in rats. ADA068535/4GA
- 79-11   Smith, R. C: A comparison of the job attitudes and interest patterns of air traffic and airway facility personnel. ADA067826/8GA
- 79-12   Thackray, R. I., and Touchstone, R. M: Visual search performance during simulated radar observation with and without a sweepline. ADA068020/7GA
- 79-13   McFadden, E. B. (Ed.): Oxygen equipment and rapid decompression studies. ADA070285/2GA
- 79-14   Boone, J. O., and Lewis, M. A: The selection of air traffic control specialists: Two studies demonstrating methods to insure an accurate validity coefficient for selection devices. ADA068581/8GA
- 79-15   Revzin, A. M: Development of electrophysiological indices of neurological toxicity for organophosphate pesticides and depressant drugs. ADA070299/3GA
- 79-16   Tobias, J. V: Interstimulus interval as it affects temporary threshold shift in serial presentations of loud tones. ADA072006/0GA
- 79-17   Chandler, R. F., and Trout, E. M: Evaluation of seating and restraint systems conducted during fiscal year 1978. ADA074881/4
- 79-18   Pickrel, E. W: Performance standards for pass-fail determinations in the national air traffic flight service station training program. ADA081066/3
- 79-19   Dille, J. R., and Booze, C. F: The 1976 accident experience of civilian pilots with static physical defects. ADA077189/19
- 79-20   Higgins, E. A., Lategola, M. T., McKenzie, J. M., Melton, C. E., and Vaughan, J. A: Effects of ozone on exercising and sedentary adult men and women representative of the flight attendant population. ADA080045/8
- 79-21   Boone, J. O: Toward the development of a new selection battery for air traffic control specialists. ADA080065/6
- 79-22   Rasmussen, P. G., Garner, J. D., Blethrow, J. G., and Lowrey, D. L: Readability of self-illuminated signs in a smoke-obscured environment. ADA081260/2
- 79-23   Pollard, D. W., Anderson, J. A., and Melton, R. J: A description of the Civil Aeromedical Institute airline cabin safety data bank: 1970-1976. ADA081155/4
- 79-24   Thackray, R. I., and Touchstone, R. M: Effects of noise exposure on performance of a simulated radar task. ADA081065/5
- 79-25   Mertens, H. W: Runway image as a cue for judgment of approach angle. ADA080929/3
- 79-26   Collins, W. E: Performance effects of alcohol intoxication and hangover at ground level and at simulated altitude. ADA079439/6

*Part I: Chronological Index*

---

**1980**

- 80-1 Thackray, R. I: Boredom and monotony as a consequence of automation: A consideration of the evidence relating boredom and monotony to stress. ADA085069/3
- 80-2 Friedberg, W., and Neas, B. R. (Eds.): Cosmic radiation exposure during air travel. ADA084801/0
- 80-3 Kirkham, W. R., Simpson, J. M., Wallace, T. F., and Grape, P. M: Aircraft crashworthiness studies: Findings in accidents involving an aerial application aircraft. ADA084619/6
- 80-4 Ryan, L. C., and Mohler, S. R: The current role of alcohol as a factor in civil aircraft accidents. ADA086261/5
- 80-5 Boone, J. O., Steen, J. A., and VanBuskirk, L. K: System performance, error rates, and training time for recent FAA Academy nonradar graduates, community persons, and handicapped persons on the radar training facility pilot position. ADA087661/5
- 80-6 Kirkham, W. R: Medical and toxicological factors in aircraft accidents. ADA087690/4
- 80-7 Collins, W. E., Boone, J. O., and VanDeventer, A. D. (Eds.): The selection of air traffic control specialists: I. History and review of contributions by the Civil Aeromedical Institute. ADA087655/7
- 80-8 Booze, C. F., Pidkowicz, J. K., Davis, A. W., and Bolding, F. A: Postmortem coronary atherosclerosis findings in general aviation accident pilot fatalities: 1975-1977. ADA089428/7
- 80-9 Higgins, E. A., Lategola, M. T., Melton, C. E., and Vaughan, J. A: Effects of ozone (0.30 parts per million, ~600 ug/m3) on sedentary men representative of airline passengers and cockpit crewmembers. ADA092268/2
- 80-10 McKenzie, J. M., Higgins, E. A., Funkhouser, G. E., Moses, R., Fowler, P. R., and Wicks, S. M: Changes in the oxygen-hemoglobin dissociation curve and time of useful function at hypobaric pressures in rats after chronic oral administration of propranolol. ADA089139/0
- 80-11 Dille, J. R., and Linder, M. K: The effects of tobacco on aviation safety. ADA091510/8
- 80-12 Chandler, R. F., Garner, J. D., Lowrey, D. L., Blethrow, J. G., and Anderson, J. A: Considerations relative to the use of canes by blind travelers in air carrier aircraft cabins. ADA092528/9
- 80-13 Rasmussen, P. G., Chesterfield, B. P., and Lowrey, D. L: Readability of self-illuminated signs obscured by black fuel-fire smoke. ADA092529/7
- 80-14 Smith, R. C: Stress, anxiety, and the air traffic control specialist: Some conclusions from a decade of research. ADA093266/5
- 80-15 Boone, J. O., Van Buskirk L., and Steen, J. A: The Federal Aviation Administration's radar training facility and employee selection and training. ADA093027/1
- 80-16 Melton, C. E: Effects of long-term exposure to low levels of ozone: A review. ADA094426/4
- 80-17 Thackray, R. I., and Touchstone, R. M: An exploratory investigation of various assessment instruments as correlates of complex visual monitoring performance. ADA097276/0
- 80-18 deSteiguer, D., and Saldivar, J. T: Evaluation of the protective efficiency of a new oxygen mask for aircraft passenger use to 40,000 feet. ADA097046/7



- 80-19 Dark, S. J: Characteristics of medically disqualified airman applicants in calendar years 1977 and 1978. ADA098766/9
- 80-20 McKenzie, J. M: Vocational options for those with sickle cell trait: Questions about hypoxemia and the industrial environment. ADA098706/5
- 1981
- 81-1 Dille, J. R., and Haraway, A: Index to FAA Office of Aviation Medicine Reports: 1961 through 1980. ADA106227/2
- 81-2 Lategola, M. T., Lyne, P. J., and Burr, M. J: Cardiorespiratory assessment of 24-hour crash-diet effects on altitude, +Gz, and fatigue tolerances. ADA106379/1
- 81-3 Federal Aviation Administration Contract DOT-FA-77WA-4076: Neurological and neurosurgical conditions associated with aviation safety. ADA098697/6
- 81-4 Simpson, L. P., and Goulden, D. R: Aviation medicine translations: Annotated bibliography of recently translated material. X. ADA098916/0
- 81-5 Hutto, G. L., Smith, R. C., and Thackray, R. I: Methodology in the assessment of stress among air traffic control specialists (ATCS): Normative adult data for the State-Trait Anxiety Inventory from non-ATCS populations. ADA103192/1
- 81-6 Mertens, H. W., and Lewis, M. F: Effect of different runway size on pilot performance during simulated night landing approaches. ADA103190/5
- 81-7 Chesterfield, B. P., Rasmussen, P. G., and Dillon, R. D: Emergency cabin lighting installations: An analysis of ceiling- vs. lower-cabinmounted lighting during evacuation trials. ADA103191/3
- 81-8 Higgins, E. A., Mertens, H. M., McKenzie, J. W., and Funkhouser, G. E: Physiological, biochemical, and performance responses to a 24-hour crash diet. ADA103143/4
- 81-9 Booze, C. F., Jr: Prevalence of selected pathology among currently certified active airman. ADA103397/6
- 81-10 Kirkham, W. R: Improving the crashworthiness of general aviation aircraft by crash injury investigations. ADA103316/6
- 81-11 Harneman, G. D: Factors related to the welfare of animals during transport by commercial aircraft. ADA106226/4
- 81-12 Thackray, R. I., and Touchstone, R. M: Age-related differences in complex monitoring performance. ADA106225/6
- 81-13 Melton, C. E., McKenzie, J. M., Wicks, S. M., and Saldivar, J. T: Fatigue in flight inspection field office (FIFO) flight crews. ADA106791/7
- 81-14 Dille, J. R., and Booze, C. F., Jr: The prevalence of visual deficiencies among 1979 general aviation accident airmen. ADA106489/8
- 81-15 Collins, W. E., Mastrullo, A. R., Kirkham, W. R., Taylor, D. K., and Grape, P. M: An analysis of civil aviation propeller-to-person accidents: 1965-1979. ADA105365/1
- 81-16 Collins, W. E., Schroeder, D. J., and Elam, G. W: A comparison of some effects of three antinotion sickness drugs on nystagmic responses to angular accelerations and to optokinetic stimuli. ADA107947/4

*Part I: Chronological Index*

---

1982

- 82-1 Thackray, R. I., and Touchstone, R. M: Performance of air traffic control specialists (ATCS's) on a laboratory radar monitoring task: An exploratory study of complacency and a comparison of ATCS and non-ATCS performance. ADA118239/3
- 82-2 Boone, J. O: A generic model for evaluation of the Federal Aviation Administration air traffic control specialist training programs. ADA106379/1
- 82-3 Lategola, M. T., Lyne, P. J., and Burr, M. J: Alcohol-induced physiological displacements and their effects on flight-related functions. ADA115473/1
- 82-4 Lategola, M. T., Lyne, P. J., and Burr, M. J: Effects of prior physical exertion on tolerance to hypoxia, orthostatic stress, and physical fatigue. ADA114741/2
- 82-5 Lategola, M. T., and Flux, M: Evaluation of cardiopulmonary factors critical to successful emergency perinatal air transport. ADA114743/8
- 82-6 Mertens, H. W., and Lewis, M. F: Effects of approach lighting and variation in visible runway length on perception of approach angle in simulated night landings. ADA114742/0
- 82-7 Kirkham, W. R., Wicks, S. M., and Lowrey, D. L: Crashworthiness studies: Cabin, seat, restraint, and injury findings in selected general aviation accidents. ADA114878/2
- 82-8 Pollard, D. W., Folk, E. D., and Chandler, R. F: Flight attendant injuries: 1971-1976. ADA114909/5
- 82-9 Reynolds, H. M., Snow, C. C., and Young, J. W: Spatial geometry of the human pelvis. ADA118238/5
- 82-10 Higgins, E. A., Mertens, H. W., McKenzie, J. M., Funkhouser, G. E., White, M. A., and Milburn, N. J: The effects of physical fatigue and altitude on physiological, biochemical, and performance responses. ADA122796/6
- 82-11 Rock, D. B., Dailey, J. T., Ozur, H., Boone, J. O., and Pickrel, E. W: Selection of applicants for the air traffic controller occupation. ADA122795/8
- 82-12 Friedberg, W., Faulkner, D. N., and Snyder, L: Transport index limits for shipments of radioactive material in passenger-carrying aircraft. ADA122794/1
- 82-13 Kirkham, W. R., Wicks, S. M., Lowrey, D. L: G incapacitation in aerobatic pilots: A flight hazard. ADA123757/7
- 82-14 Norwood, G., and Jordan, J. L: Regulatory aviation medicine: Its philosophies and limitations. ADA124043/1
- 82-15 Lacefield, D. J., Roberts, P. A., and Grape, P. M: Carbon monoxide in-flight incapacitation: An occasional toxic problem in aviation. ADA123849/2
- 82-16 Thackray, R. I., and Touchstone, R. M: Performance of 40- to 50-year- old subjects on a radar monitoring task: The effects of wearing bifocal glasses and interpolated rest periods on target detection time. ADA123843/5
- 82-17 Melton, C. E: Physiological stress in air traffic controllers: A review. ADA123853/4
- 82-18 Boone, J. O: Functional aging in pilots: An examination of a mathematical model based on medical data on general aviation pilots. ADA123756/9

- 82-19 Schroeder, D. J., Collins, W. E., and Elam, G. W: Effects of some motion sickness suppressants on tracking performance during angular accelerations. ADA123839/3

**1983**

- 83-1 Dille, J. R., and Haraway, A: Index to FAA Office of Aviation Medicine Reports: 1961 through 1982. ADA127463/8
- 83-2 McKenzie, J. M., Higgins, E. A., Fowler, P. R., Funkhouser, G. E., White, M. A., and Moser, E: Sensitivity of some tests for alcohol abuse: Findings in nonalcoholics recovering from intoxication. ADA126138/7
- 83-3 Colman, J. W: Design and test criteria for increased energy-absorbing seat effectiveness. ADA1280125/5
- 83-4 Mertens, H. W., McKenzie, J. M., and Higgins, E. A: Some effects of smoking withdrawal on complex performance and physiological responses. ADA126551/1
- 83-5 Dark, S. J: Characteristics of medically disqualified airline pilots. ADA127429/9
- 83-6 VanDeventer, A. D., Taylor, D. K., Collins, W. E., and Boone, J. O: Three studies of biographical factors associated with success in air traffic control specialist screening/training at the FAA Academy. ADA128784/6
- 83-7 Schroeder, D. J., and Deloney, J. R: Job attitudes toward the new maintenance concept of the Airway Facilities Service. ADA133282/4
- 83-8 Kirkham, W. R., Wicks, S. M., and Lowrey, D. L: Crashworthiness: An illustrated commentary on occupant survival in general aviation accidents. ADA130198/5
- 83-9 Boone, J. O: Radar Training Facility initial validation. ADA133220/4
- 83-10 deSteiguer, D., and Saldivar, J. T: An analysis of potential breathing devices intended for use by aircraft passengers. ADA132648/7
- 83-11 Pickrel, E. W., and Convey, J. J: Color perception and ATC job performance. ADA132649/5
- 83-12 Crane, C. R., Sanders, D. C., Endecott, B. R., and Abbott, J. K: Inhalation toxicology: III. Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil. ADA133221/2
- 83-13 Thackray, R. I., and Touchstone, R. M: Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle. ADA133602/3
- 83-14 deSteiguer, D., Saldivar, J. T., Higgins, E. A., and Funkhouser, G. E: The objective evaluation of aircrew protective breathing equipment: V. Mask/goggles combinations for female crewmembers. ADA134912
- 83-15 Mertens, H. W., Higgins, E. A., and McKenzie, J. M: Age, altitude, and workload effects on complex performance. ADA133594/2
- 83-16 Young, J. W., Chandler, R. F., Snow, C. C., Robinette, K. M., Zehner, G. F., and Lofberg, M. S: Anthropometric and mass distribution characteristics of the adult female. ADA135316
- 83-17 Schroeder, D. J., and Goulden, D. R: A bibliography of shift work research: 1950-1982. ADA135644
- 83-18 Dille, J. R., and Booze, C. F., Jr: The 1980 and 1981 accident experience of civil airmen with selected visual pathology. ADA134898

***Part I: Chronological Index***

---

**1984**

- 84-1 Pollard, D. W., Steen, J. A., Biron, W. J., and Cremer, R. L: Cabin safety subject index. ADA140409
- 84-2 Sells, S. B., Dailey, J. T., and Pickrel, E. W: Selection of air traffic controllers. ADA147765
- 84-3 Booze, C. F., Jr., and Simcox, L. S: Blood pressure levels of active pilots compared with those of air traffic controllers. ADA146645
- 84-4 Lategola, M. T., Davis, A. W., Jr., Gilcher, R. O., Lyne, P. J., and Burr, M. J: Aviation-related cardiorespiratory effects of blood donation in female private pilots. ADA148045
- 84-5 Hanneman, G. D., and Sershon, J. L: Tolerance endpoint for evaluating the effects of heat stress in dogs. ADA148104
- 84-6 VanDeventer, A. D., Collins, W. E., Manning, C. A., Taylor, D. K., and Baxter, N. E: Studies of poststrike air traffic control specialist trainees: I. Age, biographic factors, and selection test performance related to Academy training success. ADA147892
- 84-7 Dille, J. R., and Harris, H. L: Efforts to improve aviation medical examiner performance through continuing medical education and annual performance reports. ADA148078
- 84-8 Booze, C. F., Jr: Health examination findings among active civil airmen. ADA148325
- 84-9 Dark, S. J: Medically disqualified airline pilots. ADA149454

**1985**

- 85-1 Pollard, D. W., Steen, J. A., and Penland, T: Federal Aviation Regulations Part 135 cabin safety subject index. ADA156946
- 85-2 Melton, C. E: Physiological responses to unvarying (steady) and 2-2-1 shifts: Miami International Flight Service Station. ADA155751
- 85-3 Mertens, H. W., and Collins, W. E: The effects of age, sleep deprivation, and altitude on complex performance. ADA156987
- 85-4 Crane, C. R., Sanders, D. C., Endecott, B. R., and Abbott, J. K: Inhalation toxicology: IV. Times to incapacitation and death for rats exposed continuously to atmospheric hydrogen chloride gas. ADA157400
- 85-5 Collins, W. E., Mertens, H. W., and Higgins, E. A: Some effects of alcohol and simulated altitude on complex performance scores and Breathalyzer readings. ADA158925
- 85-6 Booze, C. F., Jr., and Staggs, C. M: A comparison of postmortem coronary atherosclerosis findings in general aviation pilot fatalities. ADA159811
- 85-7 Convey, J. J: Passing scores for the FAA ATCS color vision test. ADA160889
- 85-8 Lacefield, D. J., Roberts, P. A., and Grape, P. M: Drugs of abuse in aviation fatalities: 1. Marijuana. ADA161911
- 85-9 Dark, S. J: Characteristics of medically disqualified airman applicants in calendar years 1982 and 1983. ADA162209

- 85-10 Higgins, E.A., Saldivar, J.T., Lyne, P.J., and Funkhouser, G.E: Evaluation of a passenger mask modified with a rebreather bag for protection from smoke and fumes. ADA162473
- 85-11 Rueschhoff, B.J., Higgins, E.A., Burr, M.J. and Branson, D.M: Development and evaluation of a prototype life preserver. ADA163224
- 85-12 Russell, J.C., and Davis, A.W: Alcohol rehabilitation of airline pilots. ADA163076
- 85-13 Thackray, R.I., and Touchstone, R.M: The effect of visual taskload on critical flicker frequency (CFF) change during performance of a complex monitoring task. ADA163673

**1986**

- 86-1 Sanders, D.C., Crane, C.R., and Endecott, B.R: Inhalation toxicology: V. Evaluation of relative toxicity to rats of thermal decomposition products from two aircraft seat fire-blocking materials. ADA165034
- 86-2 Melton, C.E. and Bartanowicz, R.S: Biological rhythms and rotating shift work: Some considerations for air traffic controllers and managers. ADA168742
- 86-3 Crane, C.R., Sanders, D.C., Endecott, B.R., and Abbott, J.K: Inhalation toxicology: VI. Evaluation of the relative toxicity of thermal decomposition products from nine aircraft panel materials, ADA168250
- 86-4 Thackray, R.I., and Touchstone, R.M: Complex monitoring performance and the coronary-prone Type A behavior pattern. ADA168240
- 86-5 Crane, C.R., Sanders, D.C., Endecott, B.R., and Abbott, J.K: Inhalation toxicology: VII. Times to incapacitation and death for rats exposed continuously to atmospheric acrolein vapor.
- 86-6 Convey, J.J: The Flight Service Station Training Program: 1981-1985. ADA171485
- 86-7 Dark, S.J: Medically disqualified airline pilots. ADA173244
- 86-8 Crane, C.R., and Sanders, D.C: Inhalation toxicology: VIII. Establishing heat tolerance limits for rats and mice subjected to acute exposures at elevated air temperatures. ADA173031
- 86-9 Collins, W.E: Effects of sleep loss on vestibular responses during simple and complex vestibular stimulation. ADA173292

**1987**

- 87-1 Dille, J.R., and Grimm, M.H: Index to FAA Office of Aviation Medicine Reports: 1961 through 1986. ADA180281
- 87-2 Higgins, E.A., Saldivar, J.T., Lyne, P.J., and Funkhouser, G.E: A study of passenger workload as related to protective breathing requirements. ADA181089
- 87-3 Hanneman, G.D., and Sershon, J.L: Tolerance by unacclimated Beagle dogs to freezing and subfreezing temperatures. ADA181304
- 87-4 Schroeder, D.J., Collins, W.E., and Dollar, C.S: 1986 survey of aviation business operators: Their views of FAA airworthiness inspectors. ADA181369
- 87-5 Higgins, E.A: Summary report of the history and events pertinent to the Civil Aeromedical Institute's evaluation of providing smoke/fume protective breathing equipment for airline passenger use. ADA184499

***Part I: Chronological Index***

---

- 87-6 Diehl, A.E., and Lester, L.F: Private pilot judgment training in flight school settings. ADA188408
- 87-7 Booze, C.F., Jr: Sudden in-flight incapacitation in general aviation. ADA187044
- 87-8 Hanneman, G.D., and Sershon, J.L: A temperature/humidity tolerance index for transporting Beagle dogs in hot weather. ADA190948
- 1988**
- 88-1 Thackray, R. I. , and Touchstone, R. M: An evaluation of the effects of high visual taskload on the separate behaviors involved in complex monitoring performance. ADA190641
- 88-2 Collins, W.E., and Mertens, H. W: Age, alcohol, and simulated altitude: Effects on performance and breathalyzer scores. ADA190642
- 88-3 Manning, C. A., Kegg, P. S., and Collins, W. E: Studies of poststrike air traffic control specialist trainees: II. Selection and Screening. ADA199177
- 88-4 Thackray, R. I: Performance recovery following startle: a laboratory approach to the study of behavioral response to sudden aircraft emergencies. ADA199827
- 88-5 Clough, D. L: Airway science curriculum demonstration project: Summary of initial evaluation findings. ADA201995
- 1989**
- 89-1 Thackray, R. I., and Touchstone, R. M: A comparison of detection efficiency on an air traffic control monitoring task with and without computer aiding. ADA206422
- 89-2 Booze, C. F., Jr: Prevalence of disease among active civil airmen. ADA206050
- 89-3 Colangelo, E. J., and Russell, J. C: Injuries to seat occupants of light airplanes. ADA207579
- 89-4 Crane, C. R., Sanders, D. C., and Endecott, B. R: Inhalation toxicology: IX. Times-to-incapacitation for rats exposed to carbon monoxide alone, to hydrogen cyanide alone, and to mixtures of carbon monoxide and hydrogen cyanide. ADA208195
- 89-5 Higgins, E. A., and Vant, J. H. B: Operation Workload - A study of passenger energy expenditure during an emergency evacuation. ADA209234
- 89-6 Manning, C. A., Della Rocco, P. S., and Bryant, K. D: Prediction of success in FAA air traffic control field training as a function of selection and screening test performance. ADA209327
- 89-7 Collins, W. E., Schroeder, D. J., and Nye, L. G: Relationships of anxiety scores to Academy and field training performance of air traffic control specialists. ADA209326
- 89-8 Higgins, E. A., McLean, G. A., Lyne, P. J., Funkhouser, G. E., and Young, J. W: Performance evaluation of the Puritan-Bennett crewmember portable protective breathing device as prescribed by portions of FAA Action Notice A-8150.2. ADA210882
- 89-9 Shepherd, W. T., and Parker, J. F., Jr: Human factors issues in aircraft maintenance and inspection. ADA215 724
- 89-10 Schlegel, T. T., Higgins, E. A., McLean, G. A., Lyne, P. J., England, H. M., and Atocknie, P. A: Comparison of protective breathing equipment performance at ground level and 8,000 feet altitude using parameters prescribed by portions of FAA Action Notice A-8150.2. ADA212852

- 89-11 Higgins, E. A., McLean, G. A., Lyne, P. J., Funkhouser, G. E., and Young, J. W: Evaluation of the Scott Aviation portable protective breathing device for contaminant leakage as prescribed by FAA Action Notice A-8150.2. ADA216799
- 89-12 McLean, G. A., Higgins, E. A., and Lyne, P. J: The effects of wearing passenger protective breathing equipment on evacuation times through type III and type IV emergency aircraft exits in clear air and smoke. ADA216798
- 89-13 Melton, C. E: Airliner cabin ozone: an updated review. ADA233156.
- 89-14 Rasmussen, P. B. and Chittum, C. G: The influence of adjacent seating configurations on egress through a type III emergency exit. ADA218393
- 1990
- 90-1 Collins, W.E., Wayda, M.E., and Baxter, N.E: Index of FAA Office of Aviation Medicine Reports: 1961 through 1989. AD-221414
- 90-2 Myers, J.G: Management assessment: implications for development and training. ADA219178
- 90-3 Thackray, R.I., and Touchstone, R. M: Effects of monitoring under high and low taskload on detection of flashing and colored radar targets. ADA220313
- 90-4 Collins, W.E., Nye, L.G., and Manning, C.A: Studies of poststrike air traffic control specialist trainees: III. Changes in demographic characteristics of Academy entrants and biodemographic predictors of success in air traffic controller selection and Academy screening. ADA223480
- 90-5 Downey, L.E., and Dark, S.J: Medically disqualified airline pilots in calendar years 1987 and 1988. ADA224512
- 90-6 Manning, C. A., and Schroeder, D.J: Pilot views of Montgomery County, Texas automated FSS services. ADA227484
- 90-7 Hudson, L.S., Booze, C.F. Jr., and Davis, A.W: Right bundle branch block as a risk factor for subsequent cardiac events. ADA226596
- 90-8 Schroeder, D.J., Dollar, C.S., and Nye, L.G: Correlates of two experimental tests with performance in the FAA Academy air traffic control nonradar screen program. ADA226419
- 90-9 Mertens, H.W: Evaluation of functional color vision requirements and current color vision screening tests for air traffic control specialists. ADA227436
- 90-10 Nakagawara, V.B: The use of contact lenses in the civil airman population. ADA227450
- 90-11 Gowdy, V: Development of a crashworthy seat for commuter aircraft. ADA227486
- 90-12 Valdez, C.D: The FAA altitude chamber training flight profile: A survey of altitude reactions — 1965-1989. ADA230057
- 90-13 Della Rocco, P.S., and Manning, C.A: Selection of air traffic controllers for automated systems: applications from current research. ADA230058
- 90-14 Parker, J.F. Jr., and Shepherd, W.T., Co-editors: Second Federal Aviation Administration meeting on human factors issues in aircraft maintenance and inspection: Information exchange and communications. ADA230270

*Part I: Chronological Index*

---

- 90-15 Crane, C.R., Sanders, D.C., and Endecott, B.R: Inhalation toxicology: X. Times to incapacitation for rats exposed continuously to carbon monoxide, acrolein, and to carbon monoxide-acrolein mixtures. ADA230639
- 90-16 Sanders, D.C., and Endecott, B.R: Inhalation toxicology: XI. The effect of elevated temperature on carbon monoxide toxicity. ADA231185
- 1991**
- 91-1 Nakagawara, V.B: The effect of simulated altitude on the visual fields of glaucoma patients and the elderly. ADA233167
- 91-2 Hordinsky, J.R., and George, M.H: Utilization of emergency medical kits by air carriers. ADA234784
- 91-3 Hordinsky, J.R., and George, M.H: Response capability during civil air carrier inflight medical emergencies. ADA235526
- 91-4 Broach, D: Flight service specialist initial qualifications course: Content validation of FAA Academy course 50232. ADA237126
- 91-5 Myers, J. G. and Stutzman, T.M: Job task-competency linkages for FAA first-level supervisors. ADA236695
- 91-6 Funkhouser, G.E., and Fairlie, G.W: Donning Times and flotation characteristics of infant life preservers: Four representative types. ADA237120
- 91-7 Turner, J.W., and Huntley, M. S. Jr: The use and design of flightcrew checklists and manuals. ADA237206
- 91-8 Nye, L.G., and Collins, W.E: Some personality characteristics of air traffic control specialist trainees: Interactions of personality and aptitude test scores with FAA Academy success and career expectations. ADA238027
- 91-9 Wing, H., and Manning, C.A: Selection of air traffic controllers: Complexity, requirements, and public interest. ADA238267
- 91-10 Witt, L. A., and Myers, J.G: Two studies on participation in decision-making and equity among FAA personnel. ADA239907
- 91-11 Witt, L. A., and Broach, D: Exchange ideology as a moderator of the procedural justice-satisfaction relationship. ADA239908
- 91-12 McLean, G.A. , Wilcox, B.C., and Canfield, D.V: Selection criteria for alcohol detection methods. ADA240441
- 91-13 Turner, J.W., and Huntley, M. S. Jr: Civilian training in high-altitude flight physiology. ADA241296
- 91-14 Nakagawara, V.B., Loochan, F.K., and Wood, K.J: The prevalence of aphakia in the civil airman population. ADA214032
- 91-15 Witt, L. A., and Hellman, C.M: Cross-level inferences of job satisfaction in the prediction of intent to leave.
- 91-16 Shepherd, W.B., Johnson, W.B., Druray, C.G., Taylor, J.C., and Berninger, D: Human factors in aviation maintenance. Phase 1: Progress report.
- 91-17 Sanders, D.C., Endecott, B.S., and Chaturvedi, A.K: Inhalation toxicology: XII. Comparison of toxicity rankings of six polymers in lethality and by incapacitation in rats.
- 91-18 Broach, D: Air traffic control specialists in the Airway Science Curriculum Demonstration Project 1984-1990: Third summative evaluation.



# PART II: AUTHOR INDEX

Part II: Author Index

Author	Report Number	Author	Report Number
<b>A</b>			
Abbott, J. K. ....	70-4, 70-13, 72-12, 77-9, 83-12, 85-4, 86-3, 86-5.	Booze, C. F., Jr. ....	68-5, 68-9, 69-11, 70-18, 72-13, 73-8, 73-10, 74-5, 75-5, 76-7, 77-10, 77-20, 78-21, 79-19, 80-8, 81-9, 81-14, 83-18, 84-3, 84-8, 85-6, 87-7, 89-2, 90-7.
Adams, T. ....	63-23, 63-25, 65-16, 65-28, 65-29, 65-30, 66-23.	Bourdet, N. M. ....	71-36.
Agee, F. L., Jr. ....	66-24.	Braden, G. E. ....	69-22, 73-1.
Allen, M. E. ....	Tech. Pub. #1, 64-16, 65-17, 66-1, 66-2, 68-7.	Brake, C. M. ....	62-18, 63-1, 63-16, 63-22, 63-32, 65-27.
Allgood, M. A. ....	70-16, 75-2, 75-13.	Branson, D. M. ....	85-11.
Alluisi, E. A. ....	78-34.	Brecher, G. A. ....	69-23, 70-2, 71-22, 72-8.
Anderson, J. A. ....	79-23, 80-12.	Brecher, M. H. ....	69-23, 70-2, 71-22.
Armstrong, R. ....	66-17.	Broach, D.M. ....	91-4, 91-11, 91-18.
Ashby, F. K. ....	67-8.	Broadhurst, J. L. ....	72-30.
Atocknie, P. A. ....	89-10.	van Brummelen, A.G.W. ....	65-8.
Aviation Medical Library, FAA ....	64-20.	Bruni, C. B. ....	69-6, 69-16.
<b>B</b>		Bryant, K. D. ....	89-6.
Badgley, J. M. ....	69-22.	Busby, D. E. ....	77-11.
Bailey, J. P. ....	73-16, 74-9, 75-8, 77-18, 78-11.	<b>C</b>	
Balke, B. ....	62-6, 63-6, 63-12, 63-18, 63-33, 63-34, 64-2, 64-3, 66-36.	Canfield, D.V. ....	91-12.
Bannister, J. R. ....	78-4.	Capps, M. J. ....	Tech. Pub. #1, 64-14, 65-1, 65-2.
Barnard, C. ....	66-16.	Carroll, J. J. ....	70-16.
Bartanowicz, R. S. ....	86-2.	Chandler, R. F. ....	68-24, 72-27, 74-4, 76-9, 77-11, 78-6, 78-12, 78-23, 78-24, 79-17, 80-12, 82-8, 83-16.
Baxter, N. E. ....	84-6, 90-1.	Chase, R. C. ....	72-4.
Bedell, R. H. S. ....	67-22.	Chaturvedi, A.K. ....	91-17.
Beiergrohslein, D. ....	78-26.	Chesterfield, B. P. ....	80-13, 81-7.
Bergey, K. H. ....	72-27.	Chiles, W. D. ....	69-6, 69-9, 69-10, 69-14, 69-16, 71-17, 71-28, 72-5, 72-11, 72-19, 72- 21, 74-10, 75-10, 75-14, 76-1, 76-11, 77-15, 77-17, 78-19, 78-33, 78-34, 79-7.
Bergin, J. M. ....	73-5.	Chittum, C. B. ....	89-14.
Berkley, W. J. ....	65-5, 65-6.	Cierebiej, A. ....	69-18, 71-9.
Beminger, D. ....	91-16.	Clark, G. ....	66-5, 66-26, 66-34, 69-19.
Billings, C. E. ....	72-4.	Clough, D. L. ....	88-5.
Billings, S. M. ....	67-17.	Cobb, B. B., Jr. ....	62-2, 62-3, 63-31, 65-19, 65-22, 67-1, 68-14, 71-30, 71-36, 71-40, 72-18, 72-22, 72-33, 73-7, 74-2, 74-7, 74-8, 75-3, 76-6.
Biron, W. J. ....	84-1.	Colangelo, E. J. ....	89-3.
Blethrow, J. G. ....	66-42, 70-19, 72-15, 77-11, 78-3, 79-22, 80-12.		
Blossom, C. W. ....	78-31.		
Bolding, F. A. ....	80-8.		
Boone, J. O. ....	78-10, 78-36, 79-14, 79-21, 80-5, 80-7, 80-15, 82-2, 82-11, 82-18, 83-6, 83-9.		

**Part II: Author Index**

Author	Report Number	Author	Report Number
Collins, W. E. ....	62-17, 63-3, 63-13, 63-14, 63-29, Tech. Pub. #1, 64-14, 64-15, 64-16, 65-1, 65-2, 65-17, 65-18, 65-24, 66-37, 67-2, 67-6, 67-7, 67-12, 67-19, 68-2, 68-10, 68-28, 69-15, 69-20, 70-10, 70-17, 71-20, 71-30, 71-31, 71-34, 71-39, 72-34, 72-35, 73-17, 73-18, 74-2, 74-3, 74-7, 75-1, 75-3, 75-4, 76-12, 76-14, 77-24, 78-13, 79-7, 79-9, 79-26, 80-7, 81-15, 81-16, 82-19, 83-6, 84-6, 85-3, 85-5, 86-9, 87-4, 88-2, 88-3, 89-7, 90-1, 90-4, 91-8.	deSteiguer, D. ....	78-4, 80-18, 83-10, 83-14.
Coltman, J. W. ....	83-3.	Diehl, A. E. ....	87-6.
Constant, G. N. ....	73-19, 76-4.	Dill, D. B. ....	63-33.
Convey, J. J. ....	83-11, 85-7, 86-6.	Dille, J. R. ....	62-12, 63-2, 63-21, 63-24, 63-27, 66-14, 66-27, 68-8, 68-16, 72-1, 74-1, 76-7, 77-1, 77-20, 79-19, 80-11, 81-1, 81-14, 83-1, 83-18, 84-7, 87-1.
Cook, E. A. ....	72-30, 78-23.	Dillon, R. D. ....	81-7.
Crain, R. A. ....	65-17, 66-2.	Dollar, C. S. ....	87-4, 90-8.
Crane, C. R. ....	63-27, 67-21, 70-4, 70-13, 72-12, 77-9, 78-26, 83-12, 85-4, 86-1, 86-3, 86-5, 86-8, 89-4, 90-15.	Downey, L.E. ....	90-5.
Cremer, R. L. ....	84-1.	Druray, C.G. ....	91-16
Crosby, W. M. ....	68-6, 68-24, 69-3, 69-5.	Duncan, J. C. ....	63-30.
Culver, J. F. ....	62-12.		
	<b>D</b>		<b>E</b>
Dailey, J. T. ....	77-25, 78-35, 82-11, 84-2 (ed.).	Earley, J. C. ....	62-7.
Darden, E. B., Jr. ....	78-8.	Elam, G. W. ....	73-17, 81-16, 82-19.
Dark, S. J. ....	76-10, 78-25, 80-19, 83-5, 84-9, 85-9, 86-7, 90-5.	Emerson, T. E., Jr. ....	62-18, 63-1, 63-16, 63-22, 66-11.
Daugherty, J. W. ....	62-10, 63-4.	Endecott, B. R. ....	70-3, 77-9, 77-19, 83-12, 85-4, 86-1, 86-3, 86-5, 89-4, 90-15, 90-16 91-17.
Davis, A. W., Jr. ....	63-12, 68-15, 68-18, 70-8, 77-17, 78-20, 78-25, 80-8, 84-4, 85-12, 90-7.	England, H. M. ....	89-10.
Davis, H. V. ....	71-41.		<b>F</b>
Delafield, R. H. ....	69-12.	Fairlie, G.W. ....	91-6.
Della Rocco, P. S. ....	89-6, 90-13.	Faulkner, D. N. ....	78-8, 82-12.
Deloney, J. R. ....	83-7.	Feinberg, R. ....	65-9, 65-25.
		Ferraro, D. P. ....	73-12, 75-6.
		Fineg, J. ....	68-24.
		Fiorica, V. ....	66-6, 66-11, 66-14, 66-41, 68-4, 68-15, 68-23, 70-8, 70-18, 71-11, 71-15, 71-23, 71-41.
		Fisher, R. G. ....	74-4.
		Flux, M. ....	77-3, 77-16, 82-5.
		Folk, E. D. ....	70-18, 72-30, 73-10, 82-8.
		Fowler, P. R. ....	63-8, 67-5, 75-7, 77-17, 80-10, 83-2.
		Freud, S. L. ....	64-9, 64-10, 64-17, 66-25.
		Friedberg, W. ....	71-26, 78-8, 80-2, 82-12.
		Fromhagen, C. ....	71-18.
		Fulk, G.W. ....	91-1.

Author	Report Number	Author	Report Number
Funkhouser, G. E. ....	63-25, 66-14, 67-4, 67-17, 68-13, 68-15, 68-18, 70-5, 71-2, 71-17, 72-17, 73-22, 75-10, 75-14, 76-11, 77-8, 77-17, 78-19, 79-10, 80-10, 81-8, 82-10, 83-2, 83-14, 85-10, 87-2, 89-8, 89-11, 91-6.	Hasbrook, A. H. ....	62-7, 62-9, 62-13, 65-14, 66-32, 68-12, 68-22, 70-7, 71-24, 72-9, 72-27, 73-9, 73-23, 75-12, 77-24.
<b>G</b>		Hauty, G. T. ....	65-5, 65-6, 65-16, 65-28, 65-29, 65-30.
Galerston, E. M. ....	68-13, 68-18.	Hawkes, G. R. ....	62-11, 62-16.
Ganslen, R. V. ....	63-12, 63-34.	Hellman, C.M. ....	91-15.
Garner, J. D. ....	62-1, 62-9, 65-7, 66-42, 70-19, 72-30, 77-11, 78-3, 78-23, 79-22, 80-12.	Higgins, E. A. ....	63-23, 66-14, 66-39, 68-13, 68-15, 68-18, 69-10, 70-5, 70-8, 71-17, 71-41, 72-17, 73-22, 75-10, 75-14, 76-11, 77-8, 77-17, 78-5, 78-19, 79-10, 79-20, 80-9, 80-10, 81-8, 82-10, 83-2, 83-4, 83-14, 85-5, 85-10, 85-11, 87-2, 87-5, 89-5, 89-8, 89-10, 89-11, 89-12.
Gay, D. J. ....	77-24.	Hill, R. J. ....	71-39.
George, M.H. ....	91-2, 91-3.	Hinshaw, L. B. ....	62-18, 63-1, 63-16, 63-22, 63-26, 63-32, 66-11.
Gerathewohl, S. J. ....	69-17, 69-24, 70-9, 71-10, 71-33, 75-5, 77-6, 78-16, 78-27.	Hoffman, S. M. ....	69-12, 72-17, 73-21, 73-22, 74-11, 75-7, 76-13, 77-5.
Gerke, R. J. ....	72-4.	Holmes, D. D. ....	63-23, 63-26, 66-11.
Gibbons, H. L. ....	68-8, 69-9, 69-10, 71-18.	Hordinsky, J.R. ....	91-2, 91-3.
Gilcher, R. O. ....	84-4.	Houk, V. N. ....	64-7.
Giles, E. ....	79-2.	Hudson, L.S. ....	90-7.
Gilson, R. D. ....	71-20, 71-34, 72-34.	Huffman, H. W. ....	64-15.
Gogel, W. C. ....	62-15, 63-10, 63-20, 63-28, 64-13, 65-11, 65-32, 66-22, 66-24, 67-18, 67-20.	Hufnagel, C. A. ....	64-7.
Goldman, R. F. ....	62-5.	Hunter, C. E. ....	65-31.
Goulden, D. R. ....	71-5, 72-16, 73-19, 76-4, 81-4, 83-17.	Huntley, M.S., Jr. ....	91-7, 91-13.
Gowdy, R.V. ....	90-11.	Hurst, M. W. ....	78-39.
Grape, P. M. ....	77-8, 78-13, 80-3, 81-15, 82-15, 85-8.	Hutto, G. L. ....	72-24, 77-21, 81-5.
Grimm, E. J. ....	72-16, 73-19, 75-4, 76-4.	Hyde, A. S. ....	63-30.
Grimm, M. H. ....	72-1, 74-1, 87-1.	<b>I</b>	
Guedry, F. E., Jr. ....	67-6, 67-7, 71-20, 71-34, 72-34.	Iampietro, P. F. ....	62-5, 62-18, 63-1, 63-23, 66-14, 66-23, 68-15, 69-10, 70-8, 70-22, 71-2, 71-4, 71-17, 72-17, 72-35, 75-10, 75-14.
<b>H</b>		Ice, J. ....	63-30.
Hanneman, G. D. ....	70-3, 77-8, 78-8, 81-11, 84-5, 87-3, 87-8.	Irons, F. M. ....	73-13, 73-20.
Hanson, P. G. ....	68-6, 68-24, 69-5, 69-13.	<b>J</b>	
Haraway, A. ....	81-1, 83-1.	Jeffress, L. A. ....	63-7.
Harper, C. R. ....	66-30.	Jenkins, C. D. ....	78-39.
Harris, J. L. ....	84-7.		
Harrison, H. F. ....	66-16, 70-21.		
Hartman, S. ....	79-2.		

**Part II: Author Index**

Author	Report Number	Author	Report Number
Jennings, A. E. ....	69-10, 69-14, 72-5, 72-11, 72-21, 75-10, 75-14, 76-1, 76-11, 77-17, 78-19, 78-33, 78-34, 78-37.	Lewis, M. F. ....	67-8, 67-16, 67-24, 68-20, 68-27, 70-15, 71-27, 71-32, 71-42, 72-29, 73-6, 73-12, 73-18, 75-6, 79-4, 81-6, 82-6.
Johnson, W.B. ....	91-16.	Lewis, R. A. ....	69-6, 69-16.
Jones, K. N. ....	71-5, 71-7, 71-29, 72-14, 72-16, 72-25, 73-14, 75-1.	Linder, M. K. ....	80-11.
Jordan, J. L. ....	82-14.	Loewenfeld, I. ....	65-9.
Josenhans, W. K. T. ....	65-8.	Lofberg, M. S. ....	83-16.
<b>K</b>		Loochan, F.K. ....	91-14.
Karim, B. ....	72-27.	Lowenstein, O. ....	65-9.
Karson, S. ....	70-14.	Lowrey, D. L. ....	72-6, 77-11, 78-3, 79-22, 80-12, 80-13, 82-7, 82-13, 83-8.
Keen, F. R. ....	66-31.	Luchsinger, P. C. ....	64-8.
Kegg, P. S. ....	88-3.	Lyne, P. J. ....	63-8, 73-10, 77-3, 77-16, 78-20, 81-2, 82-3, 82-4, 84-4, 85-10, 87-2, 89-8, 89-10, 89-11, 89-12.
Kendall, W. W. ....	63-25.	Lynn, C. A. ....	73-10.
Kidd, G. D., Jr. ....	79-5.	<b>M</b>	
Kinn, J. B. ....	68-3.	Manning, C. A. ....	84-6, 88-3, 89-6, 90-4, 90-6, 90-13, 91-9.
Kirkham, W. R. ....	78-13, 80-3, 80-6, 81-10, 81-15, 82-7, 82-13, 83-8.	Mastrullo, A. R. ....	81-15.
Knowlan, D. M. ....	64-11.	Masucci, F. D. ....	63-22.
Korty, P. ....	62-10, 63-4.	Mathews, J. J. ....	72-18, 72-22, 72-33, 73-7, 74-2, 74-7, 75-3.
Kot, P. A. ....	64-11.	McClenathan J. E. ....	64-7.
Kranz, G. ....	70-10.	McConville, J. T. ....	76-9.
<b>L</b>		McCoy, J. ....	66-17.
Lacefield, D. J. ....	78-31, 82-15, 85-8.	McFadden, E. B. ....	62-13, 62-21, 63-9, 65-7, 66-7, 66-13, 66-20, 67-3, 67-4, 67-9, 70-20, 71-37, 72-10, 78-1, 78-4, 78-9, 79-13.
Lacey, D. E. ....	62-10, 63-4.	McKenzie, J. M. ....	63-8, 66-41, 67-5, 71-2, 71-21, 73-21, 73-22, 74-11, 75-7, 75-10, 75-14, 76-11, 76-13, 76-15, 77-17, 77-23, 78-18, 78-19, 78-30, 78-40, 79-10, 79-20, 80-10, 81-8, 81-13, 82-10, 83-2, 83-4.
Lacy, C. D. ....	71-5.	McLean, G. A. ....	89-8, 89-10, 89-11, 89-12, 91-12.
Langston, E. D. ....	72-6, 72-7.	Mehling, K. D. ....	71-31.
Lategola, M. T. ....	63-11, 66-16, 66-17, 66-20, 66-21, 70-8, 70-18, 70-21, 71-8, 71-19, 72-20, 72-26, 73-10, 74-6, 77-3, 77-16, 78-5, 78-20, 79-8, 79-20, 80-9, 81-2, 82-3, 82-4, 82-5, 84-4.		
Lay, C. D. ....	71-36, 72-22.		
Layne, P. J. ....	74-6.		
Leeper, R. C. ....	73-23.		
Lennon, A. O. ....	75-4, 77-24.		
Lentz, J. M. ....	76-14.		
Lester, L. F. ....	87-6.		
Leverett, S., Jr. ....	63-30.		
Lewis, M. A. ....	78-7, 78-36, 79-3, 79-14.		

Author	Report Number	Author	Report Number
Melton, C. E., Jr. ....	63-5, 64-18, 66-35, 66-39, 67-15, 68-26, 69-1, 69-12, 71-2, 71-21, 71-23, 72-17, 73-15, 73-21, 73-22, 74-11, 75-7, 76-2, 76-13, 77-5, 77-23, 78-5, 78-18, 78-40, 79-20, 80-9, 80-16, 81-13, 82-17, 85-2, 86-2, 89-13.	Newton, N. L. ....	62-12.
Melton, R. J. ....	79-23.	Nichols, E. A. ....	72-2.
Mertens, H. W. ....	62-32, 66-22, 66-38, 67-20, 67-24, 68-27, 70-15, 71-42, 72-29, 75-6, 77-12, 78-15, 79-4, 79-25, 81-6, 81-8, 82-6, 82-10, 83-4., 83-15, 85-3, 85-5, 88-2, 90-9.	Norwood, G. K. ....	71-25, 71-38, 82-14.
Mertens, R. A. ....	67-2, 68-7, 70-10, 71-5.	Nye, L. G. ....	89-7, 90-4, 90-8, 91-8.
Milburn, N. J. ....	82-10.	<i>O</i>	
Mohler, S. R. ....	62-4, 62-20, 63-2, 65-7, 65-13, 66-1, 66-3, 66-8, 66-25, 66-29, 66-30, 66-31, 66-32, 67-22, 68-8, 68-16, 69-2, 69-17, 69-18, 70-12, 71-9, 71-10, 71-33, 72-2, 72-28, 75-5, 80-4.	O'Connor, W. F. ....	65-10, 66-10, 66-15.
Moore, C. M. ....	69-19.	O'Dell, J. W. ....	70-14.
Morgan, J. C. ....	68-26.	O'Doherty, D. S. ....	65-4.
Morris, Edward W. ....	66-27.	Ozur, H. ....	82-11.
Morris, Everett W. ....	70-9.	<i>P</i>	
Moser, E. ....	83-2.	Parker, J. F., Jr. ....	89-9, 90-14.
Moser, K. M. ....	64-5, 64-7, 64-8.	Page, B. B. ....	63-22.
Moses, R. ....	66-14, 68-4, 71-11, 71-15, 80-10.	Pearson, D. W. ....	68-17, 69-7, 69-19.
Mullen, S. R. ....	77-17, 78-19, 79-10.	Pearson, R. G. ....	63-35, 65-10, 65-31, 66-19.
Murcko, L. E. ....	76-4, 77-1.	Pendergrass, G. E. ....	63-27, 66-10, 66-15.
Myers, J.G. ....	90-2, 91-5, 91-10.	Penland, T. ....	85-1.
<i>N</i>		Perloff, J. K. ....	64-19.
Nagle, F. J. ....	63-12, 63-34, 64-2, 66-36.	Perry, R. B. ....	64-8.
Nakagawara, V.B. ....	90-10, 91-1, 91-14.	Phillips, E. E. ....	63-34.
Naughton, J. ....	64-2, 66-17, 66-21, 66-36.	Pickrel, E. W. ....	77-25, 79-18, 82-11, 83-11, 84-2 (ed.).
Neal, G. L. ....	65-31.	Pidkowicz, J. K. ....	80-8.
Ncas, B. R. ....	78-8, 80-2.	Pinkerson, A. L. ....	64-11.
Nelson, J. M. ....	71-26.	Pinski, M. S. ....	78-4, 78-14.
Nelson, P. L. ....	72-33, 73-7, 74-8.	Podolak, E. ....	65-25, 68-3.
Newton, J. L. ....	63-33.	Polis, B. D. ....	71-2, 73-21, 73-22.
		Pollard, D. W. ....	78-3, 79-6, 79-23, 82-8, 84-1, 85-1.
		Price, G. T. ....	69-3, 69-13, 74-4, 77-8.
		Purswell, J. L. ....	72-27, 73-23.
		<i>R</i>	
		Racke, J. W. ....	62-21.
		Rana, B. ....	75-9.
		Rasmussen, P. G. ....	70-7, 71-24, 72-9, 73-9, 75-12, 77-2, 77-7, 77-13, 77-14, 78-17, 78-22, 78-28, 78-29, 78-41, 79-22, 80-13, 81-7, 89-14.
		Reed, W. ....	72-6, 73-1.
		Reighard, H. L. ....	65-3, 76-8, 78-35.
		Reins, D. A. ....	63-26, 65-27, 66-11.
		Revzin, A. M. ....	70-11, 73-3, 73-4, 77-22, 78-2, 79-15.

**Part II: Author Index**

Author	Report Number	Author	Report Number
Reynolds, H. I. ....	67-4.	Smith, P. W. ....	62-8, 63-24, 69-9, 70-3, 77-9, 77-19, 78-26.
Reynolds, H. M. ....	75-2, 75-13, 76-9, 82-9.	Smith, R. C. ....	70-20, 71-14, 71-21, 71-28, 71-30, 71-35, 72-23, 72-24, 73-2, 73-15, 73-22, 74-12, 75-7, 75-9, 76-2, 76-13, 77-21, 77-23, 78-32, 79-11, 80-14, 81-5.
Rice, N. ....	70-10.	Snow, C. C. ....	62-9, 65-14, 65-26, 68-6, 68-19, 68-24, 69-3, 69-4, 69-5, 69-13, 70-16, 72-27, 75-2, 79-2, 82-9.
Rieger, J. A., Jr. ....	66-11.	Snyder, L. ....	77-8, 82-12.
Rizutti, B. L. ....	76-6.	Snyder, R. G. ....	62-13, 62-19, 63-15, 63-30, 65-12, 65-26, 68-6, 68-19, 68-24, 69-3, 69-4, 69-5, 69-13, 76-9.
Roberts, P. A. ....	78-31, 82-15, 85-8.	Solomon, L. A. ....	66-11.
Robinette, K. M. ....	83-16.	Spieth, W. ....	64-4.
Robinson, C. P. ....	77-19, 78-26.	Staggs, C. M. ....	85-6.
Robinson, S. ....	63-33.	Stavinoha, W. B. ....	66-11.
Rock, D. B. ....	82-11.	Stedman, V. G. ....	71-9.
Rose, R. M. ....	78-39.	Steen, J. A. ....	71-27, 71-32, 72-29, 73-18, 75-1, 75-6, 80-5, 80-15, 84-1, 85-1.
Ross, A. ....	67-22.	Stutzman, T.M. ....	91-5.
Rowlan D. E. ....	72-15.	Swearingen, J. J. ....	62-1, 62-4, 62-13, 62-14, 63-9, 65-7, 65-20, 65-23, 66-3, 66-12, 66-18, 66-40, 67-14, 69-22, 71-3, 71-12, 71-13, 72-6, 72-7, 72-15, 73-1.
Rowland, R. C., Jr. ....	67-10.		
Rueschhoff, B. J. ....	85-11.		
Russell, J. C. ....	85-12, 89-3.		
Ryan, L. C. ....	70-3, 75-5, 80-4.		
Rylander, R. ....	73-11.		
<b>S</b>			
Saldivar, J. T. ....	66-39, 68-26, 72-17, 73-21, 73-22, 74-11, 75-7, 76-13, 77-5, 77-23, 78-18, 78-40, 80-18, 81-13 83-10, 83-14, 85-10, 87-2.		
Sanders, D. C. ....	67-21, 70-4, 70-13, 72-12, 77-9, 83-12, 85-4, 86-1, 86-3, 86-5, 86-8, 89-4, 90-15, 90-16, 91-17.		
Scarborough, W. R. ....	64-12, 65-8, 65-15.		
Schlegel, T. T. ....	89-10.		
Schroeder, D. J. ....	68-10, 70-10, 71-6, 71-16, 71-20, 71-31, 71-34, 71-39, 72-34, 73-17, 79-9, 81-16, 82-19, 83-7, 83-17, 87-4, 89-7, 90-6, 90-8.		
Scow, J. ....	66-15.		
Seipel, J. H. ....	64-6, 65-4, 67-11.		
Sells, S. B. ....	84-2 (ed.).		
Sershon, J. L. ....	84-5, 87-3, 87-8.		
Shanbour, K. ....	66-17, 66-21.		
Shepherd, W. T. ....	89-9, 90-14, 91-16.		
Siegel, P. V. ....	67-25, 68-9, 69-2, 69-17, 69-18, 71-10.		
Simcox, L. S. ....	84-3.		
Simpson, J. M. ....	66-13, 67-9, 78-13, 80-3.		
Simpson, L. P. ....	81-4.		
Sirkis, J. A. ....	70-9, 72-3.		
<b>T</b>			
		Tang, P. C. ....	63-21.
		Taylor, D. K. ....	75-9, 81-15, 83-6, 84-6.
		Taylor, J.C. ....	91-16.
		Thackray, R. I. ....	68-17, 69-7, 69-8, 69-21, 71-7, 71-29, 72-14, 72-25, 73-11, 73-14, 73-16, 74-9, 75-8, 77-18, 78-11, 79-12, 79-24, 80-1, 80-17, 81-5, 81-12, 82-1, 82-16, 83-13, 85-13, 86-4, 88-1, 88-4, 89-1, 90-3.
		Thomas, A. A. ....	71-41.

Author	Report Number	Author	Report Number
Tobias, J. V. ....	63-7, 63-17, 63-19, Tech. Pub. #1, 64-16, 65-17, 66-4, 67-10, 68-21, 68-25, 70-6, 71-1, 72-31, 72-32, 73-13, 73-20, 75-11, 76-3, 79-5, 79-16.	Wayda, M.E. ....	90-1.
Touchstone, R. M. ....	69-21, 71-29, 72-14, 72-25, 73-11, 73-14, 73-16, 74-9, 75-8, 77-18, 78-11, 79-12, 79-24, 80-17, 81-12, 82-1, 82-16, 83-13, 85-13, 86-4, 88-1, 89-1, 90-3.	Wentz, A. E. ....	64-1, 64-6.
Trent, C. C. ....	79-8.	Wernick, J. S. ....	63-19.
Trites, D. K. ....	61-1, 62-3, 63-31, 65-5, 65-6, 65-21, 65-22.	West, G. ....	71-17, 72-5, 72-19, 72-21, 74-10, 75-14.
Trout, E. M. ....	78-6, 78-12, 78-24, 79-17.	West, R.W. ....	91-1.
Turner, J.W. ....	91-7, 91-13.	Westura, E. E. ....	68-3.
<b>U</b>		Wheelright, C. D. ....	62-1.
Umberger, E. L. ....	66-25.	White, M. A. ....	83-2.
Updegraff, B. P. ....	69-20.	White, M. E. ....	82-10.
<b>V</b>		Wick, R. L., Jr. ....	72-4.
Valdez, C. D. ....	77-4, 90-12.	Wicks, S. M. ....	66-35, 66-39, 67-15, 68-26, 69-1, 77-23, 78-18, 78-40, 80-10, 81-13, 82-7, 82-13, 83-8.
VanBuskirk, L. K. ....	80-5, 80-15.	Wilcox, B.C. ....	91-12.
Vance, F. P. ....	68-26.	Williams, M. J. ....	69-15.
VanDeventer, A. D. ....	80-7, 83-6, 84-6.	Willis, D. M. ....	75-12.
Vant, J. H. B. ....	89-5.	Wing, H. ....	91-9.
Vaughan, J. A. ....	68-13, 68-15, 68-18, 69-10, 70-5, 71-17, 72-17, 75-10, 75-14, 76-5, 76-11, 77-2, 77-7, 77-13, 77-14, 78-17, 78-22, 78-28, 78-29, 78-41, 79-20, 80-9.	Winget, C. M. ....	75-10.
Veregge, J. E. ....	66-25, 67-22, 67-23.	Witt, L.A. ....	91-10, 91-11, 91-15.
Von Rosenberg, C. W. ....	66-31.	Wittmers, L. E. ....	65-27.
<b>W</b>		Wood, K.J. ....	91-14.
Wallace, T. F. ....	69-22, 72-15, 78-13, 80-3.	<b>Y</b>	
Welsh, K. W. ....	76-5, 77-2, 77-7, 77-13, 77-14, 78-17, 78-22, 78-28, 78-29, 78-41.	Yanowitch, E. A. ....	73-5.
		Yanowitch, R. E. ....	72-2, 73-5.
		Young, C. L. ....	76-6.
		Young, F. A. ....	79-2.
		Young, J. W. ....	62-21, 65-23, 66-9, 66-33, 67-13, 69-3, 69-4, 69-5, 69-13, 71-37, 74-4, 76-9, 78-14, 82-9, 83-16, 89-8, 89-11.
		Young, P. E. ....	68-11, 68-12.
		<b>Z</b>	
		Zeiner, A. R. ....	72-8.
		Zehner, G. F. ....	83-16.
		Zelenski, J. D. ....	77-19.
		Ziemnowicz, S. A. R. ....	65-4.

# PART III: SUBJECT INDEX

## Subject and Report Number

## Part III: Subject Index

## Subject and Report Number

### Acceleration, angular

- ... adaptation, 66-37, 67-6, 67-7, 67-12, 67-19, 69-20, 74-3.
- ... antemotion sickness drugs effects, 81-16, 82-19.
- ... arousal effects on nystagmus, 62-17.
- ... arousal effects on vestibular response, 63-29.
- ... dextroamphetamine effects on performance, 73-17, 76-12.
- ... effects of alcohol, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34.
- ... nystagmus after caloric habituation, 63-14, 64-14, 65-18, 67-2.
- ... nystagmus after rotation habituation, 63-13, 65-24, 68-2.
- ... rotation device, 64-15.
- ... secobarbital effects on performance, 73-17.
- ... sleep loss effects on performance, 76-12, 86-9.

### Acceleration, linear (see also deceleration)

- ... bibliography, 63-30.

### Accidents

- ... age of pilots, 77-10.
- ... agricultural aircraft, 66-27, 66-30, 72-15, 78-31, 80-3.
- ... alcohol involved, 66-29, 68-16, 78-31, 80-4.
- ... analyses of injuries, 70-16, 71-3, 72-15, 81-10, 82-7.
- ... cabin injuries, 79-23, 82-8.
- ... carbon monoxide levels without fire, 80-11.
- ... causes, 66-8, 66-27, 66-29, 67-23, 68-16, 69-2, 70-18, 78-13, 82-15.
- ... cockpit delethalization, 66-3, 66-12, 71-3.
- ... coronary atherosclerosis in pilot fatalities, 80-8, 85-6.
- ... drugs and toxic chemicals as causes, 68-16, 78-31, 85-8.
- ... evacuation injuries, 79-6, 80-12.
- ... evacuation patterns, 62-9, 65-7, 70-16.
- ... experience of pilots, 77-10.
- ... fire, smoke protection, 67-4, 70-16, 70-20, 78-4, 83-10, 85-10.
- ... identification of fatalities, 79-2.
- ... in-flight incapacitation, 87-7.
- ... in-flight vertigo and unconsciousness, 63-21.
- ... injuries from seat impacts, 66-18.
- ... injuries in extreme vertical impacts, 62-19.
- ... injuries in rearward-facing seats, 62-7.
- ... investigations, human factors findings, 63-35, 69-18, 72-2, 73-5, 80-6.
- ... lapbelt-restraint injuries to pregnant females, 68-24.

- ... occupation of pilots, 77-10.
- ... older pilots, 67-22, 70-18.
- ... padding for crash protection, 66-40.
- ... physician pilots, 66-25, 71-9.
- ... pilots with static physical defects, 76-7, 77-20, 79-19, 81-14, 83-18.
- ... post mortem findings, 69-18.
- ... predisposition, 72-2, 73-5.
- ... prevention with blind flight instrument, 66-32.
- ... propeller-to-person, 81-15.
- ... railroad, 73-1.
- ... shoulder harnesses to increase survival, 72-3, 83-8, 89-3.
- ... spatial disorientation, 78-13.
- ... stall warning, 66-31.
- ... suicide, 72-2, 73-5.
- ... survivability of free-fall impacts, 63-15.
- ... survivability of water impacts, 65-12, 68-19.
- ... use of seat cushions for flotation, 66-13.
- ... visual acuity of pilots, 75-5, 81-14, 83-18.

### Aerial application

- ... accidents, 66-27, 66-30, 68-16, 72-15, 78-31, 80-3.
- ... biochemical effects of lindane and dieldrin, 62-10, 63-4.
- ... chlordimeform toxicity, 77-19.
- ... cholinesterase determination, 67-5.
- ... comparison of serum cholinesterase methods, 70-13, 72-12.
- ... effects of dieldrin on liver, 66-5, 66-26.
- ... effects of endrin, 66-11, 66-26, 66-34, 70-11.
- ... effects of organophosphate insecticides, 63-24, 69-19, 70-3.
- ... effects of Phosdrin on performance, 72-29, 73-3.
- ... effects of Phosdrin on vision, 73-4.
- ... mechanisms of action of endrin, 63-16, 63-26.
- ... storage stability of human blood cholinesterase, 70-4.
- ... toxic hazards, 62-8, 68-16, 78-31.
- ... treatment of methamidophos poisoning, 78-26.

### Aerobatics

- ... blood donation effects, 84-4.
- ... G effects on pilots, 72-28, 82-13.

### Age

- ... binocular fusion time effects, 66-35.
- ... cardiovascular disease and performance, 64-4.
- ... cardiovascular health changes in airmen, 72-26.
- ... cockpit visual problems of senior pilots, 77-2, 77-7, 77-13, 77-14, 78-17.



### **Part III: Subject Index**

#### **Subject and Report Number**

- ... effects on complex monitoring performance, 81-12, 82-16, 83-15, 85-3, 88-2.
- ... index for pilots, 77-6, 78-16, 78-27, 82-18.
- ... interaction with alcohol and altitude, 88-2.
- ... pilots involved in aircraft accidents, 67-22, 70-18, 77-10.
- ... pupillary reflex relationship, 65-25.
- ... relation to air traffic controller health, 65-6, 71-8, 71-19, 72-20.
- ... relation to air traffic controller performance, 61-1, 62-3, 65-21, 67-1, 71-36, 73-7, 84-6, 90-4.
- ... relation to aircraft accident survival, 70-16.
- ... relation to work capacity, 63-18, 63-33.
- ... sonic boom effects during sleep, 72-19, 72-24, 72-35.
- ... studies of effects in aviation, 64-1.

#### **Air Ambulance**

- ... cardiopulmonary factors in perinatal air transport, 82-5.
- ... status of civilian air ambulance services, 71-18.

#### **Air bags**

- ... restraint tests, 69-3, 69-4.

#### **Air loads**

- ... effects on man, 63-9.
- ... small-aircraft decompressions, 67-14.

#### **Air piracy**

- ... deterrence, 78-35.

#### **Air traffic control**

- ... boredom with simulated radar control, 75-8, 80-1.
- ... conspicuity of colored and flashing targets, 90-3.
- ... density, warnings, and collision avoidance, 73-6.
- ... noise effects on performance of radar task, 79-24.
- ... radar performance with and without a sweepline, 79-12.
- ... radar performance with and without computer aiding, 89-1.
- ... radar training facility, 80-5, 80-15, 83-9.
- ... simulator for research, 65-31.
- ... vigilance at three radar display target densities, 77-18.
- ... vigilance of men and women on simulated radar task, 78-11, 80-17.

#### **Subject and Report Number**

- ... visual taskload effects on CFF change during complex monitoring, 85-13.
- ... visual taskload effects on complex monitoring, 88-1, 90-3.

#### **Air traffic controllers**

- ... age effects on performance, 61-1, 62-3, 65-21, 67-1, 71-36, 73-7, 81-12, 82-16, 84-6, 90-4.
- ... anthropometry, 65-26.
- ... anxiety with training, 89-7, 91-8.
- ... anxiety with workload, 73-15, 80-14, 81-5.
- ... aptitude tests for selection, 65-19, 68-14, 71-28, 71-36, 71-40, 72-18, 89-6, 90-8.
- ... attitudes, 74-7, 74-12, 75-3, 79-11, 91-10.
- ... attrition, 72-33, 74-2, 74-7, 75-3.
- ... biochemical stress index, 74-11, 75-7, 77-23, 78-5, 78-40.
- ... biodynamic evaluation, 71-8.
- ... biographical factors associated with training success, 83-6, 84-6, 90-4.
- ... biomedical survey, 65-5, 65-6.
- ... color perception and job performance, 83-11, 90-9.
- ... color vision tests, 85-7, 90-9.
- ... Composite Mood Adjective Check Lists to measure fatigue, 71-21.
- ... disease incidence and prevalence, 78-21, 84-3.
- ... education as selection factor, 76-6, 90-4.
- ... errors in height and weight data, 73-10.
- ... experience as selection criterion, 63-31, 71-36, 74-8.
- ... flight service station training, 86-6, 91-4.
- ... health changes, 71-19, 72-20, 78-39, 84-3.
- ... incident reporting, 65-10.
- ... motivational factors, 71-30, 73-2.
- ... Multiple Task Performance Battery for selection, 72-5, 74-10.
- ... performance and personality factors, 70-14.
- ... performance evaluation, 61-1, 65-22, 73-7.
- ... performance on radar monitoring tasks, 82-1, 83-13, 86-4, 88-1, 88-4, 90-3.
- ... physiological responses, 71-2, 73-21, 73-22, 74-11, 76-13, 77-23, 82-17.
- ... pilot satisfaction with services, 90-6.
- ... psychological testing, 61-1, 62-2, 80-14, 81-5.
- ... selection, 62-2, 72-33, 74-8, 76-6, 77-25, 78-7, 78-36, 79-3, 79-14, 79-21, 80-7, 80-15, 80-17, 82-11, 83-6, 84-2, 84-6, 88-3, 89-6, 89-7, 90-4, 90-8, 90-13, 91-4, 91-8, 91-9, 91-18.
- ... sex differences in training and attrition, 72-22, 74-2, 74-7, 75-3.

**Subject and Report Number**

- ... shift rotation patterns effects, 73-22, 75-7, 77-5, 85-2, 86-2.
- ... sleep patterns, 77-5.
- ... symptoms reported, 61-1.
- ... training, 78-10, 79-3, 79-18, 80-5, 80-15, 82-2, 83-9, 88-3, 89-6, 89-7, 90-4, 90-8, 91-4.

**Air transportation**

- ... animals, 77-8, 81-11, 84-5.
- ... medical kits, 91-2, 91-3.
- ... medical and psychological aspects, 71-10.
- ... of high risk pregnant women and neonates, 82-5.
- ... standards for advanced systems, 71-33.

**Aircraft**

- ... accident causes, 66-8, 66-25, 66-27, 66-29, 66-30, 67-23, 68-16, 69-2, 69-18, 71-9, 72-2, 73-5, 78-13, 78-31, 80-4, 82-15, 89-3.
- ... accident investigation, 62-7, 62-9, 63-21, 63-35, 67-22, 69-18, 72-2, 73-5, 79-2, 79-6, 80-3, 80-6, 80-11, 81-10, 82-7, 83-8, 85-8.
- ... attitude indicators, 73-9.
- ... aural glide slope cues for instrument approaches, 71-24.
- ... biocidal fuel additive, 67-21.
- ... cabin safety data bank, 79-23, 82-8.
- ... cabin safety subject index, 84-1, 85-1.
- ... cargo compartment environment, 81-11.
- ... checklists, 91-7.
- ... cockpit delethalization, 66-3, 66-12, 71-3, 72-6, 72-7, 72-15.
- ... cockpit visual problems, 77-2, 77-7, 77-13, 77-14, 78-17.
- ... communication in light aircraft, 72-31.
- ... control forces and female pilots, 72-27, 73-23.
- ... crew smoke-protective devices, 76-5, 78-4, 83-14, 89-5, 89-8, 89-11.
- ... decompression hazards, 67-14, 70-12.
- ... design changes to reduce injuries, 71-3, 72-7, 83-8.
- ... ditching studies, 78-1, 91-6.
- ... evacuation, 62-9, 65-7, 66-42, 70-16, 70-19, 72-30, 77-11, 78-3, 78-23, 79-5, 79-6, 80-12, 89-5, 89-12.
- ... fire, smoke protection after accidents, 67-4, 70-16, 70-20, 78-4, 83-10, 85-10, 89-5, 89-8, 89-11, 89-12.
- ... fires, toxicity of combustion products, 71-41, 77-9, 85-5, 86-1, 86-3, 86-5, 89-4, 91-17.
- ... flight manuals, 91-7.
- ... inspection, 89-9.
- ... instrument display, 75-12.

**Subject and Report Number**

- ... landing, simulated night approaches, 77-12, 78-15, 79-4, 81-6.
- ... maintenance, 89-9, 90-14, 91-16.
- ... noise effects measurement, 71-1, 72-32.
- ... noise effects on birds, 62-4.
- ... noise levels, 68-21, 68-25, 70-6.
- ... nongyroscopic blind flight instrument, 66-32.
- ... oxygen system design, 78-9.
- ... ozone concentrations and effects, 79-20, 80-9, 89-13.
- ... padding for crash protection, 66-40.
- ... propeller paint schemes conspicuity, 78-29.
- ... radioactive material shipments, 82-12.
- ... readability of emergency signs in smoke, 79-22.
- ... restraint installation, 66-33, 67-13, 72-15.
- ... restraint system evaluation, 69-3, 69-4, 69-5, 71-12, 72-3, 72-6, 78-6, 78-12, 78-24, 79-17, 80-3, 81-10, 82-7.
- ... seat cushion flotation, 66-13.
- ... seat evaluation, 78-6, 78-24, 79-17, 80-3, 81-10, 82-7, 83-3, 90-11.
- ... seat impact injuries, 66-18, 72-15, 89-3.
- ... simulator operation using drugs, 64-18.
- ... SST anticollision lights, 70-9, 70-15, 71-42.
- ... stall warning device, 66-31.
- ... standards for advanced aerospace systems, 71-33.
- ... sunscreen-treated windows, 78-28.
- ... toxicity of engine oil thermal degradation, 83-12.

**Airport**

- ... cues for approach and landing, 79-4, 79-25, 81-6, 82-6.
- ... medical services, 65-3, 71-10.

**Airway facilities personnel**

- ... job attitudes, 77-21, 79-11, 83-7.

**Airway Science Curriculum Demonstration Project**

- ... air traffic control specialists, 91-18.
- ... initial evaluation, 88-5.

**Airworthiness Inspectors**

- ... assessment of job performance, 87-4.

**Alcohol**

- ... alcoholic airline pilot rehabilitation, 85-12.
- ... congener effects, 79-7, 79-9.
- ... disorientation-related responses, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34.
- ... detection methods, 91-12.
- ... effects of altitude on blood levels, 70-5.

### **Part III: Subject Index**

#### **Subject and Report Number**

- ... effects on ataxia test battery, 79-9.
- ... effects on complex performance, 69-14, 79-7, 85-5, 88-2.
- ... effects on instrument flight performance, 72-4.
- ... effects on performance at altitude, 68-18, 79-26, 82-3, 85-5, 88-2.
- ... effects on problem solving, 72-11.
- ... effects on visual functions, 78-2, 79-15.
- ... findings in general aviation accidents, 66-27, 66-29, 68-16, 69-2, 78-31, 80-4.
- ... hangover effects, 79-7, 79-26.
- ... tests for alcoholism after intoxication in nonalcoholics, 83-2.

#### **Altitude**

- ... and heat effects on performance, 71-17.
- ... and marihuana effects on performance, 75-6.
- ... blood donation effects on tolerance, 84-4.
- ... chamber reactions, 77-4, 90-12.
- ... cosmic radiation at SST altitudes, 71-26, 80-2.
- ... decompression hazards, 67-14, 70-12.
- ... effects of alcohol, 68-18, 79-26, 82-3, 85-5, 88-2.
- ... effects of antihistamine-decongestant preparations, 78-19, 78-20.
- ... effects of antihistamines on performance, 68-15.
- ... effects on blood alcohol levels, 70-5.
- ... effects on penetrating eye injuries, 62-12.
- ... effects on performance, 66-15, 71-11, 82-3, 82-4, 82-10, 83-15, 85-3, 85-5, 88-2.
- ... effects on visual fields of glaucoma patients and the elderly, 91-1.
- ... effects on work tolerance, 63-33, 82-3.
- ... efficiency of oxygen masks, 62-21, 66-7, 66-9, 66-20, 67-3, 67-9, 72-10, 79-13, 80-18, 85-10, 89-10.
- ... human tolerance, 62-6.
- ... need for civilian training, 91-13.
- ... need for oxygen, 66-28, 78-9.
- ... ozone concentrations and effects, 79-20, 80-9.
- ... performance after decompression, 66-10.
- ... propranolol effects on tolerance, 79-10, 80-10.
- ... tolerance after crash diet, 81-2, 81-8.
- ... tolerance with pulmonary disease, 77-16.
- ... tolerance with sickle cell trait, 76-15, 78-30.

#### **Animal transportation**

- ... Freezing and subfreezing temperature effects on dogs, 87-3.
- ... Heat and humidity effects on dogs, 77-8, 81-11, 84-5, 87-8.

#### **Subject and Report Number**

#### **Anthropology**

- ... forensic, 79-2.
- ... adult face, 78-14.
- ... adult female, 83-16.
- ... air traffic controllers, 65-26.
- ... center of gravity, 62-14, 65-23, 69-22.
- ... faces of children for oxygen mask design, 66-9.
- ... female crewmember facial anthropometry, 83-14.
- ... flight attendants, 75-2, 75-13.
- ... human pelvis, 82-9.
- ... shoulder slope, 65-14.
- ... weight distribution when sitting, 62-1.

#### **Anthropomorphic dummies**

- ... design, 82-9, 83-16.
- ... evaluation, 78-6, 78-24, 79-17, 83-3.
- ... 3- and 6-year-old dummies, 76-9.

#### **Anticollision lights**

- ... effects of backscatter, 72-8.
- ... exposure effects under simulated IFR conditions, 66-39.
- ... SST, 70-9, 70-15, 71-42.

#### **Aphakia**

- ... incidence in airmen, 91-14.

#### **Arousal**

- ... by distracting stimuli, 71-7.
- ... effects on nystagmus, 62-17.
- ... effects on vestibular responses, 63-29.
- ... simulated radar control task, 75-8, 77-18, 81-12, 88-1.

#### **Attention**

- ... anticollision observing responses, 73-6.
- ... conspicuity of flashing and color targets, 90-3.
- ... personality and physiological correlates, 73-14.
- ... self-estimates of distractibility, 72-25.
- ... simulated radar task, 77-18, 78-11, 79-12, 80-17, 81-12, 82-1, 82-16, 86-4, 88-1, 89-1.
- ... time-sharing ability, 76-1, 78-33.
- ... visual taskload effects on CFF change during complex monitoring, 85-13.
- ... visual taskload effects on complex monitoring, 88-1, 90-3.
- ... with auditory distraction, 72-14.

#### **Audiology**

- ... advanced and ATC selection, 90-13.

**Subject and Report Number**

- ... auditory fatigue, 63-19, 65-1, 65-2.
- ... binaural bear perception, 63-17.
- ... cockpit noise intensities, 68-21, 68-25.
- ... ear-protector ratings, 73-20, 75-11.
- ... earphone transient response, 63-7.
- ... interaural intensity difference limen, 67-10.
- ... noise audiometry, 71-1.
- ... noise effects on aircrew personnel, 72-32.
- ... speech intelligibility improvement, 70-6, 72-31, 73-13, 76-3.
- ... table of intensity increments, 66-4.
- ... temporary threshold shift, 79-16.

**Automation**

- ... advanced and ATCS selection, 90-13.
- ... boredom and monotony as stressors, 80-1.
- ... complacency on radar monitoring task, 82-1.
- ... complex monitoring performance predictors, 80-17, 86-4.
- ... physiological stress in controllers, 82-17.
- ... radar performance with and without computer aiding, 89-1.
- ... recovery of radar monitoring performance following startle, 83-13.
- ... visual taskload effects on CFF change during complex monitoring, 85-13.
- ... visual taskload effects on complex monitoring, 88-1.

**Aviation maintenance**

- ... human factors, 89-9, 90-14, 91-16.

**Aviation medical examiners**

- ... performance, 84-7.

**Ballistocardiography**

- ... bibliography, 65-15.
- ... research and current status, 64-12.
- ... stroke volume relationship, 65-8.

**Behavior**

- ... coronary-prone Type A and complex monitoring performance, 86-4.

**Birds**

- ... possible sonotropic effects of a commercial air transport, 62-4.

**Blood**

- ... altitude effects on alcohol levels, 70-5.

**Subject and Report Number**

- ... autoregulation of renal flow, 63-32.
- ... cerebrovascular disease detection, 65-4.
- ... cholinesterase measurement, 67-5.
- ... clot dissolution therapy, 64-5.
- ... comparison of serum cholinesterase methods, 70-13, 72-12.
- ... donation effects, 84-4.
- ... erythrocyte volume spectra, 63-8.
- ... hemoconcentration with endrin poisoning, 66-11.
- ... oxygen saturation, 66-7, 66-15, 66-20, 67-3, 67-9.
- ... phospholipids, 71-2, 73-21, 73-22.
- ... plasma catecholamine determination, 66-6, 71-15.
- ... pressure changes in ATC population, 71-19, 72-20, 78-39, 84-3.
- ... pressure changes in third-class certificate holders, 72-26.
- ... pressure levels of active pilots, 84-3.
- ... pressures by rapid indirect method, 70-21.
- ... pulmonary flow with glyceryl trinitrate, 64-11.
- ... pulmonary thromboembolism, 64-7.
- ... sickle cell disease and trait, 76-15, 78-30, 80-20.
- ... storage stability of human blood cholinesterases, 70-4.
- ... tests for alcohol abuse, 83-2.

**Cabin safety**

- ... data bank, 79-23, 82-8.
- ... subject index, 84-1, 85-1.

**Calcium**

- ... activity and circadian rhythm in excretion, 68-4.

**Caloric irrigation**

- ... after habituation to rotation, 63-13.
- ... alcohol effect on response, 71-6.
- ... arousal effects on nystagmus, 62-17.
- ... elicitation of secondary nystagmus, 63-3.
- ... nystagmus after habituation, 63-14, 64-14, 65-19, 67-2.

**Canes**

- ... used by blind passengers, 80-12.

**Carbon monoxide**

- ... as cause of aircraft accidents, 68-16, 69-2, 82-15.
- ... levels in aircraft accident victims, 70-16, 80-11.
- ... relative toxic hazards of materials, 77-9.
- ... times to incapacitation of rats, 89-4.

### **Part III: Subject Index**

#### **Subject and Report Number**

##### **Cardiovascular**

- ... antihistamine-decongestant preparations effects, 78-20.
- ... ballistocardiographic research, 64-12, 65-8, 65-15.
- ... blood donation effects, 84-4.
- ... blood pressure measurement, 66-16, 66-36, 70-21, 84-3.
- ... cerebrovascular disease detection, 65-4.
- ... changes in ATC population, 71-19, 72-20, 78-39, 84-3.
- ... changes in third-class certificate holders, 72-26.
- ... coronary heart disease detection, 74-6, 78-38.
- ... dextroamphetamine effects on heart rates, 75-14.
- ... effects of age and physical training, 63-18, 64-1.
- ... effects of endrin, 63-16, 66-11.
- ... effects of glyceryl trinitrate on pulmonary vasculature, 64-11.
- ... effects of startle on heart rates, 69-21.
- ... effects of stress on heart rates, 68-17.
- ... evaluation with treadmill and step test, 64-3.
- ... function in aviation stress protocol, 78-5.
- ... health, age, and performance, 64-4.
- ... heart rates during instrument approaches, 70-7, 71-24, 75-12.
- ... heart rates in air tanker pilots, 68-26.
- ... heart rates in ATCS's, 71-2, 73-21, 73-22, 74-11.
- ... heart rates in student pilots, 67-15, 69-12.
- ... heart rates with complex vigilance tasks, 69-8, 75-8, 86-4.
- ... heart rates with simulated sonic booms, 71-29.
- ... in-flight incapacitation, 87-7.
- ... physiological responses on cross-country flights, 71-23.
- ... post mortem findings after accidents, 69-18, 80-8, 85-6.
- ... prediction of heart rates under stress, 69-7.
- ... prevalence among civil airmen, 89-2.
- ... problems associated with aviation safety, 78-38.
- ... recognition of posterior infarction, 64-19.
- ... rehabilitation after infarction, 64-2, 66-17, 66-21.
- ... responses to hyperpyrexia, 64-8.
- ... risk factors, 90-7.
- ... thromboembolic disease treatment, 64-5.
- ... transducer for heart sounds, 68-3.

##### **Case reports**

- ... in-flight loss of consciousness, 63-21.
- ... insecticide exposure, 63-24.
- ... physical conditioning after infarction, 66-21.
- ... pulmonary thromboembolism, 64-7.

#### **Subject and Report Number**

- ... rheoencephalography in cerebrovascular disease detection, 65-4.
- ... seizures in flight, 64-6.

##### **Center of gravity**

- ... adults, 62-14.
- ... children, 65-23.
- ... infants, 69-22.

##### **Certification**

- ... airmen attrition, 72-13, 73-8.
- ... alcoholic airline pilots rehabilitation, 85-12.
- ... analysis of denial actions, 68-9, 74-5, 76-10, 78-25, 80-19, 83-5, 84-9, 85-9, 86-7, 90-5.
- ... aphakia, 91-14.
- ... aviation medical examiner performance, 84-7.
- ... contact lens use, 90-10.
- ... disease prevalence and incidence, 73-8, 81-9, 84-8, 89-2, 90-7.
- ... errors in height and weight data, 73-10.
- ... estimate of active airmen, 68-5.
- ... exams of first-class certificate holders by senior AMEs, 71-38.
- ... glaucoma, 91-1.
- ... procedures, 71-25, 82-14.
- ... sickle cell disease and trait, 76-15, 80-20.
- ... tests for alcohol abuse, 83-2.

##### **Charts**

- ... readability, 77-13, 78-17.

##### **Circadian periodicity**

- ... bibliography of shift work research, 83-17.
- ... disruption of intercontinental flights, 65-16, 65-28, 65-29, 65-30, 68-8, 69-17.
- ... effects of shifts in wake-sleep cycle, 75-10, 76-11, 86-2.
- ... excretion of magnesium and calcium, 68-4.
- ... rotating shift work, 86-2.

##### **Clothing**

- ... effects on drag forces, 63-9.

##### **Cold**

- ... effect on dogs shipped by air transport, 87-3.
- ... effect on manual performance, 68-13.
- ... skin temperature to predict tolerance, 71-4.
- ... thermal balance, 66-23.
- ... thermal protection by life preservers, 85-11.

**Subject and Report Number**

**Color**

... conspicuity of radar targets, 90-3.

**Color vision**

... air traffic control specialists performance, 83-11.  
 ... clinical tests as predictors of practical tests, 73-18, 75-1.  
 ... defective and signal lights, recognition, 71-27, 71-32.  
 ... impairment by sunscreen materials, 78-28.  
 ... tests, 67-8, 85-7, 90-9.  
 ... X-Chrom lens for improving, 78-22.

**Communication**

... binaural beat perception, 63-17.  
 ... earphone response, 63-7.  
 ... interaural intensity difference limen, 67-10.  
 ... role in aircraft maintenance and inspection, 90-10.  
 ... role in promoting change within Airway Facilities Service, 83-7.  
 ... speech intelligibility improvement, 70-6, 72-31, 73-13, 76-3.  
 ... table of intensity increments, 66-4.  
 ... tactile, 62-11, 62-16.

**Contact lenses**

... epidemiological study of certification, 90-10.

**Crashworthiness**

... energy-absorbing seat effectiveness, 83-3, 90-11.  
 ... occupant survival in general aviation accidents, 81-10, 82-7, 83-8.

**Deceleration**

... bibliography, 63-30.  
 ... cockpit delethalization, 66-3, 66-12, 72-6, 72-7, 72-15, 81-10.  
 ... head impacts while wearing restraint systems, 72-6.  
 ... human tolerance, 62-6, 83-3.  
 ... illumination effects during angular deceleration, 68-28.  
 ... impact injuries in pregnancy, 68-6, 68-24.  
 ... kinematics of human body, 62-13.  
 ... padding for crash protection, 66-40.  
 ... rearward-facing seats, 69-13.  
 ... restraint systems, 67-13, 69-3, 69-4, 69-5, 69-13, 72-3, 72-15, 80-3, 81-10, 82-7, 83-8.  
 ... seat impact injuries, 66-18, 72-15, 81-10, 82-7.  
 ... side-facing seats, 69-13.  
 ... survival of extreme vertical impacts, 62-19.  
 ... survival of free-fall impacts, 63-15.

**Subject and Report Number**

... survival of water impacts, 65-12.  
 ... tolerances of face, 65-20.

**Decision-making**

... training in pilots, 87-6.  
 ... employee participation in, 91-10.

**Decompression**

... effects on performance, 66-10.  
 ... effects of propranolol on TUF, 79-10, 80-10.  
 ... need for civilian training, 91-13.  
 ... oxygen mask evaluation, 66-20, 67-3, 72-10, 79-13, 80-18.  
 ... pressurized small aircraft, 67-14.  
 ... altitude chamber experience, 77-4, 90-12.  
 ... tolerable profiles for SST, 70-12.

**Diet**

... effects on human tolerances, 81-2.  
 ... effects on performance, 81-8.

**Depth perception**

... general, 62-15, 63-10, 63-20, 63-28, 64-13, 65-11, 65-32, 66-22, 66-24, 67-18, 67-20.  
 ... light adaptation device, 66-38.

**Disorientation**

... accidents due to, 78-13.  
 ... adaptation, 65-18, 65-24, 66-37, 67-2, 67-6, 67-7, 67-12, 67-19, 68-2, 68-28, 69-20, 74-3.  
 ... effects of alcohol, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34.  
 ... familiarization techniques, 70-17, 77-24.  
 ... visually induced, 69-23, 70-2, 71-22.

**Distraction**

... measurement of susceptibility, 72-25.  
 ... performance under auditory distraction, 72-14.

**Ditching**

... flotation and survival equipment studies, 78-1, 85-11.  
 ... infant flotation device, 71-37, 91-6.  
 ... seat cushion flotation, 66-13.

**Drugs**

... antinotion sickness, 81-16, 82-19.  
 ... dextroamphetamine effects during angular acceleration, 73-17, 76-12.

### **Part III: Subject Index**

#### **Subject and Report Number**

- ... dextroamphetamine effects during sleep loss, 75-14.
- ... effects in methamidophos poisoning, 78-26.
- ... effects of antihistamine-decongestant preparations at altitude, 78-19, 78-20.
- ... effects of antihistamines at altitude, 68-15.
- ... effects of atropine and Phosdrin on vision, 73-4.
- ... effects on glyceryl trinitrate on pulmonary vasculature, 64-11.
- ... effects on chlordimeform toxicity, 77-19.
- ... effects on complex performance, 69-9.
- ... effects on orthostatic tolerance, 63-34.
- ... effects on performance in aircraft simulator, 64-18.
- ... effects on visual reflexes, 79-15.
- ... effects on work capacity, 63-34.
- ... lithium carbonate effects on performance, 77-17.
- ... marihuana, 73-12, 85-8.
- ... marihuana and altitude effects on performance, 75-6.
- ... propranolol effects on altitude tolerance, 79-10, 80-10.
- ... role in aircraft accidents, 68-16, 78-31, 85-8.
- ... secobarbital effects during angular acceleration, 73-17.
- ... tranquilizer effects on body temperature, 63-23, 66-14.
- ... use in fatigue, 63-12, 75-14.
- ... use of a tranquilizer in flight training, 69-12.

#### **Earphones**

- ... transient response, 63-7.

#### **Earplugs**

- ... ratings, 73-20, 75-11.

#### **Education**

- ... aviation medical examiners, 84-7.
- ... factor in air traffic controller selection, 76-6.
- ... factor in air traffic controller success, 76-6, 83-6.

#### **Electrocardiogram**

- ... amplitude/frequency analysis, 74-6.
- ... diagnosis of posterior infarction, 64-19.

#### **Energy**

- ... cost of treadmill work, 62-5.
- ... energy-absorbing seat effectiveness, 83-3, 90-11.

#### **Subject and Report Number**

#### **Environment**

- ... cargo compartments, 81-11.
- ... effects of mass air transportation, 71-10.

#### **Equipment**

- ... alcohol detection, 91-12.
- ... anthropometry in design, 65-26, 75-2.
- ... anticollision lights, 66-39, 70-9, 70-15, 71-42, 72-8.
- ... ARTS-III effects on controller stress, 76-13.
- ... blood pressure measurement, 66-16, 70-21.
- ... compact instrument display, 75-12.
- ... crew smoke-protective devices, 76-5, 78-4, 78-41, 83-14, 89-8, 89-11.
- ... disorientation familiarization, 70-17.
- ... emergency lighting, 66-42, 79-22, 80-13, 81-7.
- ... evaporative water loss, 67-17.
- ... fire, smoke protection, 67-4, 70-20, 78-4, 83-10, 85-10, 89-5, 89-8, 89-11, 89-12.
- ... flotation and survival, 78-1, 85-11.
- ... infant flotation device, 71-37, 91-6.
- ... instrument readability by senior pilots, 77-2, 77-7.
- ... lapbelt restraint in pregnancy, 68-24.
- ... light adaptation device, 66-38.
- ... medical kits, 91-2, 91-3.
- ... nongyroscopic blind flight instrument, 66-32.
- ... oxygen, 62-21, 66-7, 66-9, 66-10, 66-20, 67-3, 67-9, 72-10, 78-4, 79-13, 80-18, 83-10, 85-10, 89-5, 89-10.
- ... padding for crash protection, 66-40.
- ... performance testing, 66-19.
- ... protective for aircraft accidents, 65-7, 66-3, 66-12.
- ... restraint systems, 67-13, 69-3, 69-4, 69-5, 72-3, 72-6, 83-8.
- ... seat cushion flotation, 66-13.
- ... stall warning, 66-31.
- ... transducer, 68-3.
- ... upper torso restraint acceptance, 71-12.

#### **Evacuation**

- ... acoustic signals for exit location, 79-5.
- ... after air carrier accidents, 62-9, 65-7, 70-16.
- ... after railroad accident, 73-1.
- ... bibliography, 63-30.
- ... effects of seating configurations, 89-14.
- ... handicapped passengers, 77-11.
- ... history of smoke/fume protective breathing equipment, 87-5.
- ... injuries, 79-6, 79-23, 82-8.

**Subject and Report Number**

- ... passenger flow rates between compartments, 78-3.
- ... passenger workload and protective breathing, 87-2, 89-5.
- ... readability of emergency signs in smoke, 79-22, 80-13, 81-7.
- ... simulation by computer models, 72-30, 78-23.
- ... tests using L-1649, 66-42.
- ... tests using protective smoke hood, 70-20, 89-12.
- ... tests using SST mockup, 70-19.

**Exercise**

- ... auscultatory and intra-aortic pressures, 66-36.
- ... before and after myocardial infarction 64-2.
- ... effects after myocardial infarction, 66-17, 66-21.
- ... effects on human tolerances, 82-4, 82-10.
- ... effects on magnesium and calcium excretion, 68-4.
- ... energy cost of treadmill work, 62-5.
- ... tolerance at altitude, 63-33.

**Experience**

- ... air traffic controller selection, 63-31, 74-8, 78-7, 83-6.
- ... correlation with ATCS age and performance, 67-1, 73-7.
- ... pilots in general aviation accidents, 77-10.
- ... relation to reported symptoms of ATCSs, 65-6.

**Eye**

- ... age and binocular fusion time, 66-35.
- ... airman visual acuity, midair collisions, 75-5.
- ... alcohol effects on eye movements, 72-34.
- ... anticollision lights, 66-39, 70-9, 70-15, 71-42, 72-8.
- ... aphakia, prevalence in civil airmen, 91-14.
- ... bifocal effects on radar monitoring, 82-16.
- ... contact lenses, 90-10.
- ... cockpit visual problems of senior pilots, 77-2, 77-7, 77-13, 77-14, 78-17.
- ... color vision and signal lights, 71-27, 71-32, 73-18, 75-1, 78-22.
- ... color vision tests for ATCS, 83-11, 85-7, 90-9.
- ... equidistance tendency, 65-11.
- ... fatigue effects on binocular fusion time, 69-1.
- ... glaucoma, visual field and altitude, 91-1.
- ... lateral movements in student pilots, 67-15.
- ... neural control of ciliary muscle, 63-5.
- ... optokinetic stimulation, 70-2, 70-10, 71-22.
- ... pathology in accident airmen, 81-14, 83-18.
- ... penetrating injuries, 62-12.
- ... perception of depth, 63-10, 63-28, 67-20.

**Subject and Report Number**

- ... perception of size and distance, 62-15, 64-13, 66-22, 66-24, 67-18.
- ... perception of spatial extent, 63-20.
- ... photic stimulation, 66-39.
- ... propeller paint schemes conspicuity, 78-29.
- ... pupillary movement with fatigue, 65-9.
- ... pupillary reflex with age, 65-25.
- ... reaction time, flash luminance and duration, 67-24.
- ... simulation of objects moving in depth, 65-32.
- ... spiral aftereffect test, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
- ... tests for color vision, 67-8, 83-11.
- ... two-flash thresholds, 68-20, 70-15, 71-42.
- ... vision through sunscreen materials, 78-28.
- ... visually induced disorientation, 69-23, 70-2, 71-22.
- ... X-Chrom lens for improving color vision, 78-22.

**Fatigue**

- ... antihistamine-decongestant preparations effects, 78-20.
- ... auditory, 63-19, 65-1, 65-2.
- ... Composite Mood Adjective Check Lists to measure in ATCSs, 71-21.
- ... effects of shifts in wake-sleep cycle, 75-10, 76-11, 85-2.
- ... effects of sleep deprivation, 70-8, 75-14, 85-3.
- ... effects on binocular fusion time, 69-1.
- ... in air tanker pilots, 68-26.
- ... in aviation activities, 65-13, 81-13.
- ... intercontinental jet flights, 65-16, 65-28, 65-29, 65-30, 68-8, 69-17.
- ... mitigation with Spartase, 63-12.
- ... plasma catecholamine determination, 66-6, 71-15.
- ... pupillary movement with, 65-9.
- ... rotating shift work, 86-2.
- ... tolerance after crash diet, 81-2.
- ... tolerance after exercise, 82-4, 82-10.
- ... visual taskload effects on CFF change during complex monitoring, 85-13.

**Federal Air Surgeon**

- ... review of 1966 program, 67-25.
- ... review of 1976 program, 76-8.

**Fire**

- ... crew smoke-protective devices, 76-5, 78-4, 78-14, 78-41, 83-14.
- ... effects in air carrier accidents, 62-9, 65-7, 70-16.
- ... flammability of toiletries in oxygen, 63-27.



### **Part III: Subject Index**

#### **Subject and Report Number**

- ... passenger protective breathing devices, 67-4, 70-20, 83-10, 85-10, 87-2, 87-5, 89-5, 89-8, 89-11, 89-12.
- ... smoke effects on identifying emergency signs, 79-22, 80-13, 81-7.
- ... toxicity of products in aircraft fires, 71-41, 77-9, 85-5, 86-1, 86-3, 86-5, 89-4, 90-15, 90-16.
- ... toxicity of seat fire-blocking materials, 86-1.

#### **Flight attendants**

- ... anthropometry, 75-2.
- ... functional strength, 75-13.
- ... injuries, cabin safety data bank, 79-23, 82-8.
- ... ozone effects, 79-20.

#### **Flotation devices**

- ... infant, 91-6.

#### **Fuel**

- ... biocidal additive, 67-21.

#### **G forces**

- ... effects during aerobatics, 72-28, 82-13.
- ... simulation with lower body pressure box, 79-8, 82-3, 82-4.
- ... tolerance after crash diet, 81-2.
- ... tolerance effects of antihistamine-decongestant preparations, 78-20.

#### **Handicapped persons**

- ... at pilot positions in radar training, 80-5.
- ... blind passengers, 80-12.

#### **Hearing**

- ... acoustic signals for emergency evacuation, 79-5.
- ... auditory fatigue, 63-19, 65-1, 65-2.
- ... binaural beat perception, 63-17.
- ... cockpit noise intensities, 68-21, 68-25.
- ... conservation with earplugs, 73-20, 75-11.
- ... earphone transient response, 63-7.
- ... interaural intensity difference limen, 67-10.
- ... noise audiometry, 71-1.
- ... noise effects on aircrew personnel, 72-32.
- ... speech intelligibility improvement, 70-6, 72-31, 73-13, 76-3.
- ... table of intensity increments, 66-4.
- ... temporary threshold shift, 79-16.

#### **Heat**

- ... and altitude effects on performance, 71-17.
- ... effects on complex performance, 69-10, 72-17.

#### **Subject and Report Number**

- ... effects on dogs shipped by air transport, 77-8, 81-11, 84-5, 87-8.
- ... effects on manual performance, 68-13.
- ... human tolerances, 70-22, 71-4.
- ... maintenance of thermal balance, 66-23.
- ... measurement of evaporative water loss, 63-25.
- ... tolerance limits for rats and mice, 86-8.
- ... tranquilizer effects on loss and conservation, 63-23, 66-14.

#### **Hijacking**

- ... deterrence, 78-35.

#### **Human**

- ... adult female anthropometry, 83-16.
- ... angle of shoulder slope, 65-14.
- ... assessment of complex performance, 69-6, 69-16.
- ... body center of gravity, 62-14.
- ... body kinematics on deceleration, 62-13.
- ... center of gravity, 62-14, 65-23, 69-22.
- ... child body models, 76-9.
- ... factors in aviation safety, 63-35, 66-8, 66-25, 66-27, 70-18, 71-9, 71-10, 72-2, 73-5, 80-6, 89-9, 90-14, 91-16.
- ... factors in emergency evacuation, 65-7, 70-16.
- ... mass distribution of children, 76-9.
- ... pelvis spatial geometry, 82-9.
- ... physical fitness testing, 63-6.
- ... responses to auditory startle, 88-4.
- ... responses to hyperpyrexia, 64-8.
- ... responses to photic stimulation, 66-39.
- ... responses to severe weather flying, 66-41.
- ... survivability of free-fall impacts, 63-15, 65-12, 68-19.
- ... tolerances, 62-6, 71-3, 71-4, 71-13, 81-2, 82-3, 82-4, 82-10.
- ... tolerances to facial impact, 65-20, 66-12, 66-40.
- ... tolerances to heat, 70-22, 71-4.

#### **Hydrogen ion concentration**

- ... conversion table from pH, 68-23.

#### **Hyperventilation**

- ... human tolerances, 62-6.

#### **Hypoxia**

- ... blood donation effects, 84-4.
- ... human tolerance, 62-6, 63-33.
- ... interaction with marijuana, 75-6.
- ... need for civilian training, 91-13.

Subject and Report Number	Subject and Report Number
<ul style="list-style-type: none"> <li>... oxygen need, 66-28.</li> <li>... performance decrement, 66-10, 66-15, 71-11, 71-17.</li> <li>... propranolol effects, 79-10, 80-10.</li> <li>... susceptibility with sickle cell trait, 76-15, 78-30, 80-20.</li> <li>... visual field and glaucoma, 91-1.</li> </ul>	<ul style="list-style-type: none"> <li>... radiation detection, 71-26.</li> <li>... readability by senior pilots, 77-2, 77-7.</li> </ul>
<b>Identification</b>	<b>Job attitudes</b>
<ul style="list-style-type: none"> <li>... sex and race diagnosis from cranial measurements, 79-2.</li> </ul>	<ul style="list-style-type: none"> <li>... air traffic controllers, 74-7, 74-12, 75-3, 79-11, 91-10.</li> <li>... Airway Facilities Service, 77-21, 79-11, 83-7.</li> <li>... and exchange ideology, 91-11.</li> <li>... and intent to leave, 91-15.</li> <li>... aviation business operators, 87-4.</li> </ul>
<b>In-flight health care</b>	<b>Judgment</b>
<ul style="list-style-type: none"> <li>... medical kits, 91-2, 91-3.</li> </ul>	<ul style="list-style-type: none"> <li>... training in pilots, 87-6.</li> </ul>
<b>Illusions</b>	<b>Kidney</b>
<ul style="list-style-type: none"> <li>... spiral aftereffect, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.</li> <li>... visual, 70-2, 71-22, 77-12.</li> </ul>	<ul style="list-style-type: none"> <li>... autoregulation mechanism, 63-32.</li> <li>... effects of acute arterial occlusion, 63-22, 65-27.</li> <li>... effects of increased venous pressure, 62-18, 63-1.</li> <li>... effects of pesticides, 63-26, 66-11.</li> </ul>
<b>Injuries</b>	<b>Lighting</b>
<ul style="list-style-type: none"> <li>... agricultural aircraft accidents, 72-15, 80-3.</li> <li>... analysis in railroad accident, 73-1.</li> <li>... brain tolerances to concussion, 71-13, 74-4.</li> <li>... cabin safety data bank, 79-23, 82-8.</li> <li>... cockpit dealthalization, 66-3, 66-12, 71-3, 72-7, 81-10, 82-7.</li> <li>... correlation with kinematic behavior, 62-13.</li> <li>... decompression of small aircraft, 67-14.</li> <li>... emergency evacuations, 79-6, 79-23, 82-8.</li> <li>... eye, 62-12.</li> <li>... facial tolerances to impacts, 65-20.</li> <li>... from smoke and fire, 62-9, 70-16.</li> <li>... head impacts while wearing restraint systems, 72-6.</li> <li>... impact in pregnancy, 68-6, 68-24.</li> <li>... in free falls, 63-15.</li> <li>... padding for crash protection, 66-40.</li> <li>... prevention in aircraft accidents, 71-3.</li> <li>... produced by restraint systems, 69-5, 89-3.</li> <li>... rearward-facing seats, 62-7, 69-13.</li> <li>... restraint systems to prevent, 67-13, 69-3, 69-4, 69-5, 69-13, 72-3, 82-7, 83-8.</li> <li>... seat impacts, 66-18.</li> <li>... side-facing seats, 69-13.</li> <li>... vertical crash forces, 62-1.</li> <li>... vertical impact in seated position, 62-19.</li> <li>... water impacts, 65-12, 68-19.</li> </ul>	<ul style="list-style-type: none"> <li>... cabin, 79-22, 80-13, 81-7.</li> <li>... cockpit, 77-2, 77-13, 77-14, 78-17.</li> </ul>
<b>Instruments</b>	<b>Magnesium</b>
<ul style="list-style-type: none"> <li>... attitude indicators, 73-9.</li> <li>... performance with compact display, 75-12.</li> </ul>	<ul style="list-style-type: none"> <li>... activity and circadian rhythm in excretion, 68-4.</li> </ul>
	<b>Management</b>
	<ul style="list-style-type: none"> <li>... effectiveness of training, 75-9, 78-32.</li> <li>... job task analysis for supervisors, 91-5.</li> <li>... training needs, 90-2.</li> </ul>
	<b>Medical kits</b>
	<ul style="list-style-type: none"> <li>... used in flight, 91-2, 91-3.</li> </ul>
	<b>Motion sickness</b>
	<ul style="list-style-type: none"> <li>... susceptibility, 76-14.</li> <li>... treatment effects, 81-16, 82-19.</li> </ul>
	<b>Motivation</b>
	<ul style="list-style-type: none"> <li>... airway facilities personnel, 77-21.</li> <li>... factors in ATC work, 71-30, 74-12.</li> </ul>
	<b>Neurology</b>
	<ul style="list-style-type: none"> <li>... alcohol effects on ataxia test battery, 79-9.</li> <li>... alcohol effects on visual functions, 78-2, 79-15.</li> <li>... brain tolerances to concussion, 71-13, 74-4.</li> <li>... central factor in auditory fatigue, 63-19.</li> <li>... chlordimeform toxicity, 77-19.</li> </ul>

### **Part III: Subject Index**

#### **Subject and Report Number**

... conditions associated with aviation safety, 81-3.  
... drug effects on performance, 64-18.  
... effects of endrin, 63-16, 70-11.  
... effects of organophosphate insecticides, 63-24,  
72-29, 73-3, 73-4, 79-15.  
... in-flight vertigo and unconsciousness, 63-21.  
... nucleus rotundus, 77-22.  
... photic stimulation, 66-38.  
... pupillary movement, 65-9, 65-25.  
... rheoencephalography in cerebrovascular disease  
detection, 65-4, 67-11.  
... seizures in flight, 64-6.  
... spiral aftereffect test, 64-9, 64-10, 64-17, 68-10,  
69-15, 71-31.  
... studies at GCRI, 64-1.  
... vestibular tests, 75-4.

#### **Noise**

... auditory fatigue, 63-19, 65-1, 65-2.  
... ear-protector ratings, 73-20, 75-11.  
... effects of simulated sonic booms, 71-29, 72-19,  
72-24, 72-35, 73-16, 74-9.  
... effects on aircrew personnel, 72-32.  
... effects on birds, 62-4.  
... effects on performance of simulated radar task,  
79-24, 83-13.  
... intensity in aircraft cockpits, 68-21, 68-25.  
... performance impairment, 72-14.  
... sonic boom startle effects in field study, 73-11.  
... speech intelligibility improvement, 70-6, 72-31,  
73-13, 76-3.  
... temporary threshold shift, 79-16.

#### **Nystagmus**

... effects of adaptation, 66-37, 67-6, 67-7, 67-12,  
67-19, 69-20.  
... effects of alcohol, 71-6, 71-16, 71-20, 71-34,  
71-39, 72-34.  
... effects of antinotion sickness drugs, 81-16.  
... effects of arousal upon, 62-17, 63-29.  
... effects of dextroamphetamine and secobarbital,  
73-17.  
... elicitation of secondary by irrigation, 63-3.  
... following caloric habituation, 63-14, 64-14,  
65-18, 67-2.  
... following habituation to rotation, 63-13, 65-24,  
68-2.  
... illumination effects during angular deceleration,  
68-28.  
... ocular during sleep deprivation, 86-9.  
... optokinetic stimulation, 70-2, 70-10, 71-22.

#### **Subject and Report Number**

... translations of reports, Tech. Pub. #1, 64-16,  
65-17, 66-2.  
... vertical, 68-2.

#### **Orthostatic tolerance**

... alcohol effects at altitude, 82-3.  
... physical exertion effects, 82-4.

#### **Oxygen**

... equipment studies, 79-13, 80-18, 89-10.  
... flammability of toiletries, 63-27.  
... need at altitude, 66-28.  
... need for training among civilians, 91-13.  
... system design, 78-9.

#### **Oxygen masks**

... crew smoke-protective devices, 76-5, 78-4,  
78-14, 78-41, 83-14, 89-8, 89-11.  
... design for children, 66-9.  
... disposable, 66-7.  
... donning time after decompression, 66-10.  
... evaluation, 62-21, 66-7, 66-20, 67-3, 67-9,  
72-10, 78-4, 79-13, 80-18, 83-10, 85-10,  
87-5, 89-5.

#### **Ozone**

... chronic effects, 80-16.  
... effects under simulated flight conditions, 79-20,  
80-9.  
... review of effects, 89-13.

#### **Passengers**

... and use of medical kits, 91-2, 91-3.  
... blind, cane use in emergency evacuation, 80-12.  
... emergency evacuation, computer model, 72-30,  
78-23.  
... emergency evacuation, seating configurations,  
89-14.  
... flow rates between compartments, 78-3.  
... handicapped emergency evacuation, 77-11,  
80-12.  
... illness and injuries, cabin safety data bank, 79-23.  
... injuries during emergency evacuation, 79-6,  
79-23.  
... oxygen masks, 79-13, 80-18.  
... ozone effects, 80-9, 89-13.  
... protective breathing devices, 67-4, 70-20, 83-10,  
85-10, 87-2, 87-5, 89-5.

**Subject and Report Number**

**Subject and Report Number**

**Patient**

- ... air transport with eye injuries, 62-12.
- ... civilian air ambulance services, 71-18, 82-5.

**Perception**

- ... anticollision lights, 66-39, 70-9, 70-15, 71-42.
- ... approach angle in simulated night landings, 81-6, 82-6.
- ... auditory fatigue, 63-19.
- ... Broca-Sulzer phenomenon, 68-27.
- ... color, 67-8, 83-11, 90-9.
- ... interaural intensity difference limen, 67-10.
- ... matching flash loudness and brightness, 67-16.
- ... of binaural beat, 63-17.
- ... of depth, 63-10, 63-28, 65-11, 65-32, 67-20.
- ... of size and distance, 62-15, 64-13, 66-22, 66-24, 67-18.
- ... of spatial extent, 63-20.
- ... peripheral visual cues, 68-11, 68-12, 68-22.
- ... propeller paint schemes, 78-29.
- ... reaction time, flash luminance and brightness, 67-24.
- ... spiral aftereffect, 64-9, 64-10, 68-10, 69-15, 71-31.
- ... tactile, 62-11, 62-16.
- ... two-flash thresholds, 68-20, 70-15.
- ... vision through sunscreen materials, 78-28.

**Performance**

- ... accident experience, physical defects, 76-7, 77-20, 79-19, 81-14, 83-18.
- ... after decompression, 66-10.
- ... after forest fire retardant missions, 68-26.
- ... after intercontinental flights, 65-16, 65-28, 65-29, 65-30, 68-8, 69-17.
- ... after shifts in wake-sleep cycle, 75-10, 76-11.
- ... age index for pilots, 77-6, 78-16, 78-27, 83-15, 85-3.
- ... air traffic controllers
  - age effects, 61-1, 62-3, 65-21, 67-1, 71-36, 73-7, 81-12, 84-6.
  - aptitude tests for prediction, 65-19, 68-14, 71-28, 71-36, 71-40, 72-18, 79-3, 84-2, 84-6, 88-3, 89-6.
  - color perception effects, 83-11, 90-3.
  - evaluation, 61-1, 65-22.
  - experience as predictor, 63-31.
  - flight service station training, 86-6.
  - flashing target effects, 90-3.
  - incident reporting, 65-10.
  - Multiple Task Performance Battery for selection, 72-5, 74-10.
  - pass-fail in FSS training program, 79-18.

- radar simulator, 65-31, 75-8, 77-18, 78-11, 80-15, 80-17, 82-1, 82-16, 83-9, 83-13, 86-4, 88-4, 89-1, 90-3.
- relation to personality factors, 70-14, 89-7.
- sex differences, 72-22.
- ... airworthiness inspectors, 87-4.
- ... antihistamine-decongestant preparations effects at altitude, 78-19.
- ... antihistamine effects at altitude, 68-15.
- ... attitude indicators (flight instrument), 73-9.
- ... attitude questionnaires to predict under stress, 69-7.
- ... aural glide slope cues for instrument approaches, 71-24.
- ... aviation medical examiners, 84-7.
- ... cockpit compact instrument display, 75-12.
- ... crash diet effects, 81-8.
- ... decrement with hypoxia, 66-15, 71-11, 82-10, 83-15, 85-3, 85-5.
- ... dextroamphetamine effects during sleep loss, 75-14.
- ... distractability effects, 72-25.
- ... distracting stimuli effects, 71-7, 72-14.
- ... drug effects during angular acceleration, 73-17, 82-19.
- ... drug effects in aircraft simulator, 64-18.
- ... drug effects on complex performance, 69-9, 75-14, 77-17, 78-19.
- ... effects of chronic disulfoton poisoning, 69-19.
- ... effects of cognitive appraisal of stress, 68-17.
- ... effects of heart disease and age, 64-4.
- ... effects of mental tasks on auditory fatigue, 65-1, 65-2.
- ... effects of Phosdrin, 72-29, 73-3.
- ... effects of physical conditioning program, 66-17, 66-21.
- ... effects of physical exercise, 82-4, 82-10.
- ... effects of signal rate on monitoring, 69-6, 69-16.
- ... effects of sleep deprivation, 70-8, 85-3.
- ... effects of startle, 69-21, 73-11, 73-16, 79-24, 83-13, 88-4.
- ... heat and altitude effects on performance, 71-17.
- ... heat effects on complex performance, 69-10, 72-17.
- ... impairment by alcohol, 66-29, 69-14, 71-20, 71-34, 72-4, 72-11, 72-34, 78-2, 79-7, 79-26, 82-3, 83-2, 85-5, 88-2.
- ... instrument flying using peripheral visual cues, 68-11, 68-12, 68-22.
- ... interaction of alcohol and altitude, 88-2.
- ... marihuana effects, 73-12, 75-6, 85-8.
- ... measurement, 77-15, 78-33, 78-34, 84-2.
- ... monotonous task correlates, 73-14, 75-8.
- ... noise effects on simulated radar task, 79-24.

### **Part III: Subject Index**

#### **Subject and Report Number**

- ... physiological measures on perceptual-motor tasks, 69-8.
- ... pilot tracking during successive approaches, 72-9.
- ... pseudopilots in radar training, 80-5.
- ... reliability of individual subjects, 78-37.
- ... simulated glidepath indicators, 79-4, 79-25, 81-6, 82-6.
- ... smoking effects, 80-11, 83-4.
- ... sonic boom effects, 71-29, 72-19, 74-9.
- ... student pilots, 67-15, 69-12.
- ... tasks for operator-skills research, 66-19.
- ... time-sharing ability, 76-1.
- ... tracking and complex performance, 72-21.
- ... tracking, dextroamphetamine, sleep loss, 76-12.
- ... visual search with and without radar sweepline, 79-12.
- ... visual taskload effects on CFF change during complex monitoring, 85-13.
- ... visual taskload effects on complex monitoring, 88-1, 90-3.
- ... work in heat and cold, 66-23, 68-13.

#### **Personnel**

- ... biological rhythms and rotating shift work considerations, 86-2.
- ... correlates of satisfaction with training, 91-9.
- ... decision making, equity, and job satisfaction, 91-10.
- ... effectiveness of management training, 75-9, 78-32.
- ... evaluation of Airway Science Curriculum Demonstration Project, 88-5.
- ... intent to leave and job satisfaction, 91-15.
- ... identification of management training needs, 90-2.
- ... job attitudes, airway facilities personnel, 77-21, 79-11, 83-7.
- ... job performance ratings of airworthiness inspectors' performance in aviation
- ... job task analysis for FAA supervisors, 91-5.
- ... maintenance, 89-9, 90-14, 91-16.
- ... test fairness for selection, 79-3.

#### **Pesticides**

- ... aerial application aircraft accidents, 66-27, 66-30, 68-16, 78-31, 80-3.
- ... biochemical effects of lindane and dieldrin, 62-10, 63-4.
- ... chlordimeform toxicity, 77-19.
- ... cholinesterase determination, 67-5.
- ... CNS effects of organophosphates, 63-24, 69-19, 79-15.

#### **Subject and Report Number**

- ... comparison of serum cholinesterase methods, 70-13, 72-12.
- ... effects of dieldrin on liver, 66-5, 66-26.
- ... effects of endrin, 66-11, 66-26, 66-34, 70-11.
- ... effects of organophosphates on reproduction, 70-3.
- ... effects of Phosdrin on performance, 72-29, 73-3.
- ... effects of Phosdrin on vision, 73-4.
- ... mechanisms of action of endrin, 63-16, 63-26.
- ... methamidophos toxicity, 78-26.
- ... storage stability of human blood cholinesterase, 70-4.
- ... symptoms and treatment of poisoning, 62-8.

#### **Physical fitness**

- ... after myocardial infarction, 64-2, 66-17, 66-21.
- ... age relationship, 63-18.
- ... field test for, 63-6.
- ... of ATC students, 71-8.

#### **Physiology**

- ... blood donation effects, 84-4.
- ... crash diet effects, 81-2, 81-8.
- ... evaporative water loss device, 67-17.
- ... gas pressure in tissue, 63-11.
- ... measures during complex task performance, 69-8, 82-10.
- ... need for high altitude training in, 91-13.
- ... neural control of the ciliary muscle, 63-5.
- ... responses during sleep deprivation, 70-8, 75-14.
- ... responses to backscatter, 72-8.
- ... smoking withdrawal responses, 83-4.
- ... thermal balance, 66-23.
- ... tolerances to heat, 70-22, 71-4.

#### **Pilots**

- ... accident experience, physical defects, 76-7, 77-20, 79-19, 81-14, 83-18.
- ... accident predisposition, 72-2, 73-5.
- ... aerial applicator protection, 66-30, 72-15, 80-3.
- ... age index, 77-6, 78-16, 78-27, 82-18.
- ... ages of those in aircraft accidents, 67-22, 70-18, 77-10.
- ... alcohol effects on performance, 72-4, 78-2, 79-7, 79-26, 83-2.
- ... alcoholic airline pilots rehabilitation, 85-12.
- ... altitude tolerance with pulmonary disease, 77-16.
- ... analysis of certification denial actions, 68-9, 74-5, 76-10, 78-25, 80-19, 83-5, 84-9, 85-9, 86-7, 90-5, 90-7.
- ... anticollision observing responses, 73-6.
- ... attrition, 72-13, 73-8.

**Subject and Report Number**

- ... blood donation effects, 84-4.
- ... blood pressure levels, 84-3.
- ... cardiovascular health changes in third-class certificate holders, 72-26.
- ... cockpit visual problems, 77-2, 77-7, 77-13, 77-14, 78-17.
- ... color vision and signal lights, 71-27, 71-32, 73-18, 75-1.
- ... control force capabilities of females, 72-27, 73-23.
- ... coronary atherosclerosis in fatal accidents, 80-8, 85-6.
- ... decision-making training, 87-6.
- ... disease prevalence and incidence, 73-8, 81-9, 84-8, 89-2.
- ... effects of drugs in aircraft simulator, 64-18.
- ... estimate of active population, 68-5.
- ... exams of first-class certificate holders by senior AME's, 71-38.
- ... experience in controller selection, 74-8.
- ... fatigue, 81-13.
- ... G effects of aerobatics, 72-28, 82-13.
- ... heart rates during instrument approaches, 70-7, 71-24, 75-12.
- ... heat effects on performance in a flight simulator, 72-17.
- ... impaired performance by alcohol, 66-29, 72-4, 78-2.
- ... judgment training, 87-6.
- ... marijuana in general aviation fatal accidents, 85-8.
- ... medical standards, 71-25, 82-14.
- ... noise effects on hearing, 72-32.
- ... need for flight physiology training, 91-13.
- ... occupations, 69-11, 77-10.
- ... ozone effects, 80-9, 89-13.
- ... performance on glidepath indicator systems, 79-4, 79-25, 81-6, 82-6.
- ... performance with two attitude indicators, 73-9.
- ... physician accidents, 66-25, 71-9.
- ... physiological responses on cross-country flights, 71-23.
- ... physiological studies in air tankers, 68-26.
- ... pulmonary function, 77-3.
- ... response to peripheral visual cues, 68-11, 68-12, 68-22.
- ... responses to severe weather flying, 66-41.
- ... risk factors for cardiac events, 90-7.
- ... satisfaction with ATC services, 90-6.
- ... smoking effects on performance, 80-11, 83-4.
- ... status variables with accidents, 70-18.
- ... stress in student pilots, 67-15, 69-12, 76-2.
- ... suicide, 72-2, 73-5.

**Subject and Report Number**

- ... tracking performance during successive approaches, 72-9.
- ... type airman certificate related to accidents, 67-23.
- ... vertigo, 67-19.
- ... visual acuity, midair collisions, 75-5.
- ... workload, 77-15, 81-13.

**Pregnancy**

- ... effects of organophosphate pesticides in rats, 70-3.
- ... emergency air transport, 82-5.
- ... impact injuries, 68-6, 68-24.

**Propellers**

- ... paint schemes conspicuity, 78-29.
- ... propeller-to-person accidents, 81-15.

**Psychology**

- ... Composite Mood Adjective Check List to measure stress effects, 71-14, 71-21, 73-22.
- ... job attitudes, airway facilities personnel, 77-21, 79-11, 83-7.
- ... personality assessment, 71-35, 91-8.
- ... psychological autopsy, 72-2, 73-5.

**Pulmonary**

- ... disease, altitude tolerance, 77-16.
- ... function testing, 64-1, 71-8, 77-3.
- ... ozone effects on function, 79-20, 80-9, 89-13.
- ... protection from smoke, fire, 67-4, 78-4, 83-10, 83-14, 85-10.
- ... responses to hyperpyrexia, 64-8.
- ... thromboembolism, 64-7.
- ... vascular effects of glyceryl trinitrate, 64-11.

**Radiation**

- ... calibration of Concorde detection instrument, 71-26.
- ... measurements at SST altitudes, 71-26, 80-2.
- ... RBE of fast neutrons, 78-8.
- ... transport limits for radioactive material, 82-12.

**Renal function**

- ... autoregulation mechanism, 63-32.
- ... effects of acute arterial occlusion, 63-22, 65-27.
- ... effects of increased venous pressure, 62-18, 63-1.
- ... effects of insecticides, 63-26.

### **Part III: Subject Index**

#### **Subject and Report Number**

##### **Research, aeromedical**

- ... aging studies at GCRI, 64-1.
- ... aims and accomplishments, 62-20, 67-25.
- ... ballistocardiography, 64-12, 65-8, 65-15.
- ... bibliography of acceleration studies, 63-30.
- ... bibliography of shift work research, 83-17.
- ... emergency evacuation, 65-7.
- ... index of reports, 63-2, 64-20, 66-1, 68-1, 70-1, 72-1, 74-1, 77-1, 79-1, 81-1, 83-1, 87-1, 90-1.
- ... needs, 63-35, 71-10.
- ... translated material, Tech. Pub. #1, 64-16, 65-17, 66-2, 68-7, 71-5, 76-4, 81-4.

##### **Restraint**

- ... acceptance of upper torso restraint, 71-12.
- ... bibliography, 63-30.
- ... center of gravity, 62-14, 65-23, 69-22.
- ... cockpit delethalization, 66-3, 71-3, 72-6, 81-10.
- ... comparison of systems, 67-13, 69-3, 69-4, 69-5, 69-13.
- ... effectiveness in agricultural aircraft accidents, 72-15, 80-3.
- ... evaluation, 78-6, 78-24, 79-17.
- ... head impacts while wearing, 72-6.
- ... infant and child systems, 78-12.
- ... kinematics with seatbelt restraint, 62-13.
- ... lapbelt effects on pregnant female, 68-24.
- ... shoulder harness benefits, 72-3, 82-7, 83-8.
- ... shoulder harness design, 65-14.
- ... upper body restraint installation, 66-33.

##### **Rheoencephalography**

- ... cerebrovascular disease detection, 65-4, 67-11.

##### **Seat**

- ... child and infant seat evaluation, 78-12.
- ... comfort, 62-1.
- ... cushion flotation, 66-13.
- ... energy-absorbing, 83-3, 90-11.
- ... evaluation, 78-6, 78-24, 79-17, 80-3, 81-10, 82-7, 83-3.
- ... fire-blocking materials toxicity, 86-1.
- ... injury potential, 66-18, 71-3, 72-15, 82-7, 83-8, 89-3.
- ... pressure distribution, 62-1.
- ... rearward-facing, injuries, 62-7, 69-13.
- ... side-facing, impact injuries, 69-13.

##### **Seatbelts**

- ... center of gravity in design, 62-14, 65-23.
- ... cockpit delethalization, 66-3, 71-3.

#### **Subject and Report Number**

- ... evaluation of different systems, 67-13, 69-3, 69-13.
- ... impact injuries due to, 69-5.
- ... impact injuries to pregnant females, 68-24.
- ... kinematics of restrained subjects, 62-13.

##### **Shift rotation**

- ... attitudes of ATCS's, 73-2.
- ... bibliography of shift work research, 83-17.
- ... effects of 5-day and 2-2-1 patterns, 73-22, 75-7.
- ... effects of steady and 2-2-1 shifts, 85-2.
- ... review, 86-2.
- ... sleep in air traffic controllers, 77-5.
- ... symptoms reported for ATCS's, 65-5, 65-6.
- ... translations of reports, 81-4.

##### **Shoulder harness**

- ... acceptance tests, 71-12.
- ... angle of shoulder slope in design, 65-14.
- ... benefits, 72-3, 82-7, 83-8.
- ... cockpit delethalization, 66-3, 72-6, 81-10.
- ... comparison of types, 67-13, 69-3, 69-4, 69-5.
- ... effectiveness in agricultural aircraft accidents, 72-15, 80-3.
- ... failures, 81-10.
- ... head impacts while wearing, 72-6.
- ... installation in general aviation aircraft, 66-33.

##### **Sickle cell trait**

- ... aeromedical significance, 76-15, 80-20.
- ... research protocol, 78-30.

##### **Simulation**

- ... air traffic controller radar task, 65-31, 75-8, 77-18, 78-11, 79-12, 79-24, 80-15, 81-12, 82-1, 82-16, 83-9, 83-13, 90-3.
- ... air traffic controller color perception and job performance, 83-11, 90-9.
- ... aircraft passenger emergency evacuation, 72-30, 77-11, 78-23.
- ... aviation stress protocol, 78-5.
- ... for operator skills research, 66-19.
- ... +Gz, 79-8.
- ... movement of objects in depth, 65-32.
- ... night approaches to landing, 77-12, 78-15, 79-4, 81-6, 82-6.
- ... pilot workload, 77-15, 82-10, 83-15.
- ... sonic booms, 71-29, 72-19, 72-24, 72-35, 73-16.
- ... stress in ground trainer use, 76-2.
- ... transfer of training, 69-24.
- ... visual glidepath indicator systems, 79-4, 79-25, 81-6, 82-6.

**Subject and Report Number**

**Skin**

- ... conductance with sonic booms, 71-29.
- ... evaporative water loss, 63-25.
- ... flammability of toiletries, 63-27.
- ... galvanic skin response, 64-18.
- ... tactile communication, 62-11, 62-16.
- ... temperature to predict tolerances to heat and cold, 71-4.

**Sleep**

- ... air traffic controllers, 77-5.
- ... deprivation, 70-8, 85-3.
- ... dextroamphetamine effects during sleep loss, 75-14.
- ... effects of shifts in sleep-wake cycle, 75-10, 76-11.
- ... effects of sonic booms, 72-19, 72-24, 72-35.
- ... loss effects on vestibular response, 86-9.

**Smoke**

- ... crew protective devices, 76-5, 78-4, 78-14, 78-41, 83-14, 89-8, 89-11.
- ... effects in air carrier accidents, 62-9, 65-7, 70-16.
- ... effects on reading emergency signs, 79-22, 80-13, 81-7.
- ... passenger protective breathing devices, 67-4, 70-20, 83-10, 85-10, 87-2, 87-5, 89-5, 89-12.
- ... toxicity of thermal degradation products of engine oils, 83-12.

**Smoking**

- ... effects of smoking/withdrawal, 83-4.
- ... effects on aviation safety, 80-11.

**Sonic booms**

- ... autonomic responses, 71-29, 72-35, 73-16, 74-9.
- ... effects during sleep, 72-19, 72-24, 72-35.
- ... effects on tracking performance, 71-29.
- ... startle effects, 73-11, 73-16, 74-9.

**Stalls**

- ... warning device, 66-31.

**Standards**

- ... aeromedical, 71-25, 71-33, 82-14.
- ... color vision for air traffic controllers, 83-11, 90-9.
- ... for advanced aerospace systems, 71-33.
- ... neurological and neurosurgical conditions, 81-3.

**Subject and Report Number**

**Stress**

- ... assessment with State-Trait Anxiety Inventory, 72-23, 81-5, 91-8.
- ... aviation stress protocol—simulation, 78-5.
- ... Composite Mood Adjective Check List to measure, 71-14, 71-21.
- ... effects on heart rate and performance, 68-17, 69-21.
- ... evaporative water loss device, 67-17.
- ... flight inspection crews, 81-13.
- ... +Gz, 79-8.
- ... heart rates during instrument approaches, 70-7, 71-24, 75-12.
- ... in air tanker pilots, 68-26.
- ... in air traffic controllers, 71-2, 71-21, 73-15, 73-21, 73-22, 74-11, 75-7, 76-13, 77-23, 78-5, 78-18, 78-40, 80-14, 82-17.
- ... measurement of evaporative water loss, 63-25.
- ... monotony with automation as a stressor, 80-1.
- ... of shifts in wake-sleep cycle, 75-10, 76-11.
- ... performance under auditory distraction, 72-14.
- ... physiological responses on cross-country flights, 71-23.
- ... plasma catecholamine determination, 66-6, 71-15.
- ... prediction of performance by attitudes, 69-7.
- ... severe weather flying, 66-41.
- ... situational in accident causation, 72-2, 73-5.
- ... student pilots, 67-15, 69-12, 76-2.
- ... symptoms reported by air traffic controllers, 65-5, 65-6.
- ... urinary metabolites, 78-18, 78-40, 85-2.

**Suicide**

- ... aircraft accident cause, 72-2, 73-5.

**Supersonic transport**

- ... anticollision lights, 70-9, 70-15, 71-42.
- ... decompression profiles, 70-12.
- ... evacuation tests, 70-19.
- ... radiation at SST altitudes, 71-26, 80-2.
- ... sonic boom effects, 71-29, 72-19, 72-24, 72-35, 73-11, 73-16, 74-9.

**Temperature**

- ... cold effects on shipped dogs, 87-2.
- ... changes in cold water with prototype life perserver, 85-11.
- ... effects on complex performance, 69-10, 71-17, 72-17.
- ... effects on liver damage by dieldrin, 66-5.
- ... effects on manual performance, 68-13.



### **Part III: Subject Index**

#### **Subject and Report Number**

- ... evaporative water loss, 63-25, 67-17.
- ... heat effects on shipped dogs, 77-8, 81-11, 84-5, 87-8.
- ... heat tolerance limits of rats and mice, 86-8.
- ... human tolerance, 62-6, 70-22.
- ... hyperpyrexia, 64-8.
- ... maintenance of thermal balance, 66-23.
- ... tranquilizer effects on body temperature, 63-23, 66-14.

#### **Tests**

- ... air traffic controller selection, 61-1, 62-2, 65-19, 65-21, 68-14, 71-28, 71-36, 72-5, 72-18, 74-10, 77-25, 78-7, 79-3, 79-14, 79-21, 80-7, 82-11, 84-2, 84-6, 90-4, 90-8, 90-13, 91-9.
- ... alcohol abuse, 83-2.
- ... aptitude measures of military ATCS trainees, 71-40.
- ... aptitude measures of female ATCS trainees, 72-22.
- ... ataxia, alcohol effects, 79-9.
- ... ballistocardiography, 64-12, 65-8, 65-15.
- ... cholinesterase activity, 67-5.
- ... color vision, 67-8, 71-27, 71-32, 73-18, 75-1, 83-11, 85-7, 90-9.
- ... complex human performance, 69-6, 69-16, 72-5, 72-21.
- ... Composite Mood Adjective Check List, 71-14, 71-21, 73-22.
- ... correlation with experience in ATCS selection, 63-31.
- ... directional headings, 72-18, 90-8.
- ... distraction susceptibility, 71-7.
- ... emergency evacuation, 65-7, 66-42, 70-19, 70-20, 77-11, 78-3, 79-5, 89-5, 89-14.
- ... energy-absorbing seat effectiveness, 83-3, 90-11.
- ... fairness, 79-3.
- ... flight service station training program, 86-6.
- ... for physical fitness, 63-6, 63-18, 63-33, 64-3, 66-17.
- ... pass-fail in flight service station training, 79-18.
- ... performance, 66-19.
- ... performance after decompression, 66-10.
- ... performance, age and disease, 64-4.
- ... performance and age, 65-21, 71-36, 81-12.
- ... performance and personality factors, 70-14.
- ... performance with hypoxia, 66-15, 71-11, 82-10, 83-15.
- ... personality assessment, 71-35.
- ... pupillary movement, 65-9, 65-25.
- ... spiral aftereffect, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
- ... stain for dieldrin and endrin, 66-26.

#### **Subject and Report Number**

- ... State Trait Anxiety Inventory, 72-23, 76-13, 80-14, 81-5, 89-7, 91-8.
- ... Stroop test, 71-7, 72-14.
- ... system for combustion toxicology, 77-9.
- ... vestibular during physical exams, 75-4.

#### **Tobacco**

- ... effects on aviation safety, 80-11, 83-4.

#### **Tolerance**

- ... cold stress in dogs, 87-8.
- ... +Gz, 79-8, 81-2.
- ... heat for rats and mice, 86-8.
- ... heat stress in dogs, 77-8, 81-11, 84-5, 87-8.
- ... hypoxia, propranolol effects, 79-10, 80-10.
- ... of brain to concussion, 71-13, 74-4.
- ... of decompression for SST, 70-12.
- ... of face to impact, 65-20, 66-12, 66-40.
- ... of flight stresses, 62-6, 81-2.
- ... of free-fall impacts, 63-15.
- ... of hot environments, 70-22.
- ... of impacts in water, 65-12, 68-19.
- ... of intercontinental flights, 65-16, 65-28, 65-29, 65-30.
- ... of vertical impact, 62-19.
- ... orthostatic, 63-34, 82-3, 82-4.
- ... prediction for thermal environments, 71-4.
- ... work at altitudes, 82-3.

#### **Toxicology**

- ... combustion products of cabin materials, 77-9, 85-5, 86-1, 86-3, 86-5, 89-4, 90-15, 90-16, 91-17.
- ... findings in fatal aircraft accidents, 78-31, 80-11, 82-15.
- ... ozone toxicity, 80-16, 89-13.
- ... thermal degradation of engine oils, 83-12.

#### **Training**

- ... air traffic controllers, 78-10, 79-3, 79-18, 80-5, 80-15, 82-2, 83-9, 84-6, 88-3, 89-6, 89-7, 91-9, 91-18.
- ... aviation medical examiners, 84-7.
- ... biographical factors in ATCS success, 83-6, 84-6.
- ... correlates of satisfaction with, 91-9.
- ... disorientation familiarization, 70-17, 77-24.
- ... effectiveness of management training, 75-9, 78-32.
- ... flight physiology, need for, 91-13.
- ... flight service station, 86-6, 91-4.
- ... for reception of distorted speech, 73-13.

**Subject and Report Number**

- ... judgment training for pilots, 87-6.
- ... maintenance personnel, 91-16.
- ... needs for managers, 90-2.
- ... physiological, 10-year chamber experience, 77-4.
- ... stress in pilot training, 67-15, 69-12, 76-2.
- ... test fairness, 79-3.
- ... tracking performance during successive approaches, 72-9.
- ... transfer from simulation, 69-24.

**Translations**

- ... aviation medicine, 64-16, 65-17, 66-2, 68-7, 71-5, 72-16, 73-19, 76-4, 81-4.
- ... color vision tests, 67-8.
- ... nystagmus and vestibular function, Tech. Pub. #1.

**Turbulence**

- ... effects of severe weather flying, 66-41.
- ... injuries, cabin safety data bank, 79-23, 82-8.

**Vertigo**

- ... Coriolis stimulation, 67-19.
- ... flicker, 66-39.
- ... illumination during angular deceleration, 68-28.
- ... in-flight case with unconsciousness, 63-21.
- ... production by spiral aftereffect, 64-9, 64-10, 64-17.

**Vestibular function**

- ... effects of adaptation, 66-37, 67-6, 67-7, 67-12, 67-19, 69-20, 74-3.
- ... effects of alcohol, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34, 79-9.
- ... effects of arousal, 62-17, 63-29.
- ... effects of dextroamphetamine and secobarbital, 73-17.
- ... effects of sleep loss, 86-9.
- ... following caloric habituation, 63-14, 64-14, 65-18, 67-2.
- ... following habituation to rotation, 63-13, 65-24, 68-2.
- ... motion sickness susceptibility, 76-14.
- ... rotation device, 64-15.
- ... secondary, tertiary, and inverted primary nystagmus, 63-3.
- ... tests during physical examinations, 75-4.
- ... translation of reports, Tech. Pub. #1, 64-16, 65-17, 66-2, 72-16, 73-19.

**Vibration**

- ... bibliography, 63-30.

**Subject and Report Number**

**Vision**

- ... acuity, pilots in midair collisions, 75-5.
- ... age and binocular fusion time, 66-35.
- ... alcohol effects, 78-2, 79-15.
- ... anticollision lights, 66-39, 70-9, 70-15, 71-42, 72-8.
- ... aphakia, incidence in airmen, 91-14.
- ... bifocal effects on radar monitoring, 82-16.
- ... Broca-Sulzer phenomenon, 68-27.
- ... chart readability, 77-13, 78-17.
- ... color, diagnostic tests, 67-8, 71-27, 71-32, 73-18, 75-1.
- ... color perception and ATCS job performance, 83-11, 85-7, 90-3.
- ... contact lenses in certification, 90-10.
- ... cues for approach and landing, 79-4, 79-25, 81-6, 82-6.
- ... deficiencies in accident airmen, 81-14, 83-18.
- ... disorientation, 69-23, 70-2.
- ... drug and pesticide effects on visual reflexes, 79-15.
- ... effects of atropine and Phosdrin, 73-4.
- ... effects of fixation on nystagmus, 67-12.
- ... fatigue effects on binocular fusion time, 69-1.
- ... glaucoma, visual field and altitude, 91-1.
- ... illusions, 70-2, 71-22, 77-12, 78-15.
- ... instrument readability by senior pilots, 77-2, 77-7.
- ... light adaptation device, 66-38.
- ... matching flash loudness and brightness, 67-16.
- ... monitoring performance on simulated radar task, 80-17, 81-12, 90-3.
- ... perception of depth, 63-10, 63-28, 67-20.
- ... perception of size and distance, 62-15, 64-13, 65-11, 66-22, 66-24, 67-18.
- ... perception of spatial extent, 63-20.
- ... peripheral visual cues, 68-11, 68-12, 68-22.
- ... presbyopic individuals, 77-14.
- ... propeller paint schemes conspicuity, 78-29.
- ... reaction time, flash luminance and brightness, 67-24.
- ... readability of emergency signs in smoke, 79-22, 80-13, 81-7.
- ... search performance with radar sweepline, 79-12.
- ... smoke-protective goggles, 76-5, 78-41, 83-14.
- ... spiral aftereffect, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
- ... stimulation during angular deceleration, 68-28.
- ... sunscreen materials effects, 78-28.
- ... two-flash thresholds, 68-20, 70-15, 71-42.
- ... X-Chrom lens to improve color vision, 78-22.

**Part III: Subject Index**

**Subject and Report Number**

**Subject and Report Number**

**Warning signals**

... color and flashing radar targets, 90-3.

**Water survival**

... life preserver evaluation, 85-11.

**Weight**

... accident rate relation to body weight, 70-18.  
... changes in ATCS population, 71-19, 72-20.  
... changes in third-class certificate holders, 72-26.  
... errors in stated estimates, 73-10.

**Work**

... age effects on tolerance, 63-33.  
... alcohol effects, 82-3.  
... altitude effects on tolerance, 63-33, 82-3.  
... anxiety relation to workload in ATCS's, 73-15,  
77-23, 80-14, 81-5.  
... capacity after myocardial infarction, 64-2, 66-17,  
66-21.

... capacity of ATCS students, 71-8.  
... capacity related to age, 63-18.  
... capacity with step test, 64-3.  
... distractibility with monotony, 72-25.  
... drug effects on performance, 63-12, 63-34.  
... effects on blood pressure, 66-36.  
... energy cost on treadmill, 62-5.  
... field test for fitness, 63-6.  
... human tolerance, 62-6.  
... measurement of pilot workload, 77-15, 81-13.  
... monotonous task performance correlates, 73-14.  
... motivation of ATCS, 73-2.  
... passenger workload and protective breathing  
requirements, 87-2.  
... shift rotation effects, 65-5, 65-6, 81-4, 82-17,  
83-17, 85-2, 86-2.  
... sickle cell trait effects, 80-20.  
... strength and endurance of female pilots, 72-27,  
73-23.  
... strength of flight attendants, 75-13.  
... thermal balance in heat and cold, 66-23, 68-13.  
... workload effects on complex performance, 83-15.

For information about CAMI programs, write:

Director

FAA Civil Aeromedical Institute, AAM-3

P.O. Box 25082

Oklahoma City, Oklahoma 73125